



#11

SEQUENCE LISTING

<110> Yakhini, Zohar
Ben-Dor, Amir
Sampas, Nick
Dougherty, Edward
Trent, Jeff
Meltzer, Paul
Chen, Yidong
Weeraratna, Ashani
Jiang, Yuan
Bittner, Michael

<120> Classifying Cancers

<130> 10010313-1

<140> 09/921,406

<141> 2001-08-02

<160> 41

<170> PatentIn Ver. 2.1

<210> 1

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (57)

<223> n = gat or c

<220>

<221> misc_feature

<222> (167)

<223> n = gat or c

<220>

<221> misc_feature

<222> (245)

<223> n = gat or c

<220>

<221> misc_feature

<222> (268)

<223> n = gat or c

<220>
 <221> misc_feature
 <222> (306)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (388)
 <223> n = GAT or C

<220>
 <221> misc_feature
 <222> (443)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (462)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (472)..(477)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (488)
 <223> n = gat or c

<400> 1
 tttttttttt ttatatattat atttatattt atatatatgt atatatatat atatgtnatg 60
 tacaaaagac tttgagatat caggcaccat taaaccacat ttccccctt ataaatgcaa 120
 ctgttcaagt acactgggaa cagttttaag gtacacctgc agtacantag gagaagcatg 180
 agtggataat ctaaacacag gatcataaca gtgatacgct gcaacacctc tgtgaattcc 240
 attanccaag ttctgtcatt aaaacatngg aaaactactg gctcctcaaa ataaaagggtt 300
 ttaggnaacc aaaaatcccc taagtagtga actgttttcc aagcagagct ccctaattgg 360
 tttcaatttc ctgggcctac aaccaaangg ggaccccgat tggaagctgc cgtttgggaa 420
 acgtgggccca ggcacatgat cancaacacg ggggggaatc cngagagggg cncattnttg 480
 aagaaggng 489

<210> 2
 <211> 4114
 <212> DNA
 <213> Homo sapiens

<400> 2

```
attaattctg gctccacttg ttgctcggcc cagggttggg agaggacgga ggggtggccgc 60
agcgggttcc tgagtgaatt acccaggagg gactgagcac agcaccaact agagaggggt 120
cagggggtgc gggactcgag cgagcaggaa ggaggcagcg cctggcacca gggctttgac 180
tcaacagaat tgagacacgt ttgtaatcgc tggcgtgccc cgcgcacagg atcccagcga 240
aaatcagatt tcctggtgag gttgcgtggg tggattaatt tggaaaaaga aactgcctat 300
atcttgccat caaaaaactc acggaggaga agcgcagtca atcaacagta aacttaagag 360
acccccgatg ctcccctggt ttaacttgta tgcttgaaaa ttatctgaga gggaataaac 420
atcttttctt tcttccctct ccagaagtcc attggaatat taagcccagg agttgctttg 480
gggatggctg gaagtgcaat gtcttccaag ttcttcctag tggctttggc catatttttc 540
tccttcgccc aggttgtaat tgaagccaat tcttggtggt cgctaggtat gaataaccct 600
gttcagatgt cagaagtata tattatagga gcacagcctc tctgcagcca actggcagga 660
ctttctcaag gacagaagaa actgtgccac ttgtatcagg accacatgca gtacatcggg 720
gaaggcgcga agacaggcat caaagaatgc cagtatcaat tccgacatcg acggtggaac 780
tgacgactg tggataacac ctctgttttt ggcagggtga tgcagatagg cagccgcgag 840
acggccttca catacgcctg gagcgcagca ggggtggtga acgccatgag ccgggcgtgc 900
cgcgagggcg agctgtccac ctgcggctgc agccgcgccg cgcgccccaa ggacctgccg 960
cgggactggc tctggggcgg ctgcggcgac aacatcgact atggctaccg ctttgccaa 1020
gagttcgtgg acgcccgcga gcgggagcgc atccacgcca agggctccta cgagagtgt 1080
cgcatcctca tgaacctgca caacaacgag gccggccgca ggacggtgta caacctggct 1140
gatgtggcct gcaagtgcca tggggtgtcc ggctcatgta gcctgaagac atgctggctg 1200
cagctggcag acttccgcaa ggtgggtgat gccctgaagg agaagtacga cagcgcggcg 1260
gccatgcggc tcaacagccg gggcaagttg gtacaggta acagccgctt caactcgccc 1320
accacacaag acctggtcta catcgacccc agccctgact actgcgtgcg caatgagagc 1380
accggctcgc tgggcacgca gggccgcctg tgcaacaaga cgtcggaggg catggatggc 1440
tgcgagctca tgtgctgcgg ccgtgggtac gaccagttca agaccgtgca gacggagcgc 1500
tgccactgca agttccactg gtgctgctac gtcaagtgca agaagtgcac ggagatcgtg 1560
gaccagtttg tgtgcaagta gtgggtgcca cccagcactc agccccgctc ccaggacctg 1620
cttatttata gaaagtacag tgattctggt ttttggtttt tagaaatatt ttttattttt 1680
ccccagaat tgcaaccgga accatttttt ttctgtttac catctaagaa ctctgtggtt 1740
tattattaat attataatta ttatttgcca ataatggggg tgggaaccac gaaaaatatt 1800
tattttgttg atctttgaaa aggtaataca agacttcttt tggatagtat agaataagag 1860
gggaaataac acatacccta acttagctgt gtgggacatg gtacacatcc agaaggtaaa 1920
gaaatacatt ttctttttct caaatatgcc atcatatggg atgggtaggt tccagttgaa 1980
agagggtggt agaaatctat tcacaattca gcttctatga ccaaaatgag ttgtaaattc 2040
tctggtgcaa gataaaagggt cttgggaaaa caaaacaaa caaaacaaac ctcccttccc 2100
cagcagggtc gctagcttgc tttctgcatt ttcaaaatga taatttacia tggaaggaca 2160
agaatgtcat attctcaagg aaaaaaggta tatcacatgt ctcatctcc tcaaatattc 2220
catttgcaag cagaccgtca tattctaata gctcatgaaa tttgggcagc agggaggaaa 2280
gtccccagaa attaaaaaat ttaaaactct tatgtcaaga tgttgatttg aagctgttat 2340
aagaattggg attccagatt tgtaaaaaaga ccccaatga ttctggacac tagatttttt 2400
gtttggggag gttggcttga acataaatga aatatcctgt attttcttag ggatacttg 2460
ttagtaaaat ataatagtag aaataatata tgaatcccat tcacagggtt ctcagcccaa 2520
gcaacaagg aattgcgtgc cattcagcac tgcaccagag cagacaacct atttgaggaa 2580
aaacagtga atccaccttc ctcttcacac tgagccctct ctgattcctc cgtgttgtga 2640
tgtgatgctg gccacgtttc caaacggcag ctccactggg tcccctttgg ttgtaggaca 2700
ggaaatgaaa cattaggagc tctgcttgga aaacagttca ctacttaggg atttttgttt 2760
cctaaaactt ttattttgag gagcagtagt tttctatgtt ttaatgacag aacttggtca 2820
```

```

atggaattca cagaggtggt gcagcgtatc actgttatga tcctgtgttt agattatcca 2880
ctcatgcttc tcctattgta ctgcaggtgt accttaaaac tgttcccagt gtacttgaac 2940
agttgcattt ataagggggg aaatgtgggt taatgggtgcc tgatatctca aagtcttttg 3000
tacataacat atatatatat atacatatat ataaatataa atataaatat atctcattgc 3060
agccagtgat ttagatttac agcttactct ggggttatct ctctgtctag agcattgttg 3120
tccttcactg cagtccagtt gggattattc caaaagtttt ttgagtcttg agcttgggct 3180
gtggccccgc tgtgatcata ccctgagcac gacgaagcaa cctcgtttct gaggaagaag 3240
cttgagttct gactcactga aatgcgtggt ggggtgaaga tatctttttt tcttttctgc 3300
ctcacccctt tgtctccaac ctccatttct gttcactttg tggagagggc attacttggt 3360
cgttatagac atggacgtta agagatattc aaaactcaga agcatcagca atgtttctct 3420
tttcttagtt cattctgcag aatggaaacc catgcctatt agaaatgaca gtacttatta 3480
attgagtccc taaggaatat tcagcccact acatagatag cttttttttt tttttttttt 3540
ttttaataag gacacctctt tccaaacagg ccatcaaata tgttcttata tcagacttac 3600
gttggtttta aagtttgga agatacacat cttttcatac ccccccttag gaggttgggc 3660
tttcatatca cctcagccaa ctgtggctct taatttattg cataatgata tccacatcag 3720
ccaactgtgg ctctttaatt tattgcataa tgatattcac atccccctcag ttgcagtga 3780
ttgtgagcaa aagatcttga aagcaaaaag cactaattag tttaaaatgt cacttttttg 3840
gtttttatta tacaaaaacc atgaagtact ttttttattt gctaaatcag attgttcctt 3900
tttagtgact catgtttatg aagagagttg agtttaacaa tcctagcttt taaaagaaac 3960
tatttaaatgt aaaatattct acatgtcatt cagatattat gtatatcttc tagcctttat 4020
tctgtacttt taatgtacat atttctgtct tgcgtgattt gtatatttca ctggtttaaa 4080
aaacaaacat cgaaaggctt attccaaatg gaag 4114

```

<210> 3

<211> 365

<212> PRT

<213> Homo sapiens

<400> 3

```

Met Ala Gly Ser Ala Met Ser Ser Lys Phe Phe Leu Val Ala Leu Ala
  1                      5                      10                      15

```

```

Ile Phe Phe Ser Phe Ala Gln Val Val Ile Glu Ala Asn Ser Trp Trp
          20                      25                      30

```

```

Ser Leu Gly Met Asn Asn Pro Val Gln Met Ser Glu Val Tyr Ile Ile
          35                      40                      45

```

```

Gly Ala Gln Pro Leu Cys Ser Gln Leu Ala Gly Leu Ser Gln Gly Gln
          50                      55                      60

```

```

Lys Lys Leu Cys His Leu Tyr Gln Asp His Met Gln Tyr Ile Gly Glu
          65                      70                      75                      80

```

```

Gly Ala Lys Thr Gly Ile Lys Glu Cys Gln Tyr Gln Phe Arg His Arg
          85                      90                      95

```

Arg	Trp	Asn	Cys	Ser	Thr	Val	Asp	Asn	Thr	Ser	Val	Phe	Gly	Arg	Val			
			100					105					110					
Met	Gln	Ile	Gly	Ser	Arg	Glu	Thr	Ala	Phe	Thr	Tyr	Ala	Val	Ser	Ala			
		115					120					125						
Ala	Gly	Val	Val	Asn	Ala	Met	Ser	Arg	Ala	Cys	Arg	Glu	Gly	Glu	Leu			
	130					135					140							
Ser	Thr	Cys	Gly	Cys	Ser	Arg	Ala	Ala	Arg	Pro	Lys	Asp	Leu	Pro	Arg			
145					150					155					160			
Asp	Trp	Leu	Trp	Gly	Gly	Cys	Gly	Asp	Asn	Ile	Asp	Tyr	Gly	Tyr	Arg			
			165					170					175					
Phe	Ala	Lys	Glu	Phe	Val	Asp	Ala	Arg	Glu	Arg	Glu	Arg	Ile	His	Ala			
		180					185						190					
Lys	Gly	Ser	Tyr	Glu	Ser	Ala	Arg	Ile	Leu	Met	Asn	Leu	His	Asn	Asn			
	195						200					205						
Glu	Ala	Gly	Arg	Arg	Thr	Val	Tyr	Asn	Leu	Ala	Asp	Val	Ala	Cys	Lys			
	210					215					220							
Cys	His	Gly	Val	Ser	Gly	Ser	Cys	Ser	Leu	Lys	Thr	Cys	Trp	Leu	Gln			
225					230					235					240			
Leu	Ala	Asp	Phe	Arg	Lys	Val	Gly	Asp	Ala	Leu	Lys	Glu	Lys	Tyr	Asp			
			245					250						255				
Ser	Ala	Ala	Ala	Met	Arg	Leu	Asn	Ser	Arg	Gly	Lys	Leu	Val	Gln	Val			
			260					265					270					
Asn	Ser	Arg	Phe	Asn	Ser	Pro	Thr	Thr	Gln	Asp	Leu	Val	Tyr	Ile	Asp			
		275					280					285						
Pro	Ser	Pro	Asp	Tyr	Cys	Val	Arg	Asn	Glu	Ser	Thr	Gly	Ser	Leu	Gly			
	290						295				300							
Thr	Gln	Gly	Arg	Leu	Cys	Asn	Lys	Thr	Ser	Glu	Gly	Met	Asp	Gly	Cys			
305					310					315					320			
Glu	Leu	Met	Cys	Cys	Gly	Arg	Gly	Tyr	Asp	Gln	Phe	Lys	Thr	Val	Gln			
			325						330					335				
Thr	Glu	Arg	Cys	His	Cys	Lys	Phe	His	Trp	Cys	Cys	Tyr	Val	Lys	Cys			
			340					345					350					

Lys Lys Cys Thr Glu Ile Val Asp Gln Phe Val Cys Lys
 355 360 365

<210> 4
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (233)
 <223> n = gat or c

<400> 4
 atcatgcatt gcaacattta ttgatggagt tttcccaatt taatatttct catcatttcc 60
 tcacatgatt agtactgcta gcggacctac taaaatttta acactgactt attattagag 120
 atggcttgca tttttcctac accattccaa aggagaacat tagatgtctg tattaatttc 180
 aagcaaaagt gtgagagaaa taatttcagc atgtctcagg tgtctcgctg gcncttaagg 240
 tgaataaggt ggtggtgact gttctgcaga gagtttctca taagcagggtg gagcattggg 300
 aaccacaggt tcacagtttt tctcttgaag agacactttg ctgtcccgat gatcaaacc 360
 ttcttggtgg catcttcctg ttaaggcaca ttgaggccaa c 401

<210> 5
 <211> 1524
 <212> DNA
 <213> Homo sapiens

<400> 5
 agcagacaga ggactctcat taaggaaggt gtccgtgtgcc ctgaccctac aagatgccaa 60
 gagaagatgc tcaattcatc tatggttacc ccaagaaggg gcacggccac tcttacacca 120
 cggctgaaga ggccgctggg atcggcatcc tgacagtgat cctgggagtc ttactgctca 180
 tcggctggtg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
 atgtttggcac tcaatgtgcc ttaacaagaa gatgcccaca agaagggttt gatcatcggg 300
 acagcaaagt gtctcttcaa gagaaaaact gtgaacctgt ggttcccaat gctccacctg 360
 cttatgagaa actctctgca gaacagtcac caccacctta ttcaccttaa gagccagcga 420
 gacacctgag acatgctgaa attatttctc tcacactttt gcttgaattt aatacagaca 480
 tctaattgtt tccttttgaa tgggtgtagga aaaatgcaag ccatctctaa taataagtca 540
 gtgttaaaat tttagtaggt ccgctagcag tactaatcat gtgaggaaat gatgagaaat 600
 attaaattgg gaaaactcca tcaataaatg ttgcaatgca tgatactatc tgtgccagag 660
 gtaatgttag taaatccatg gtgttatitt ctgagagaca gaattcaagt gggatttctg 720
 gggccatcca atttctcttt acttgaaatt tggctaataa caaactagtc aggttttctga 780
 accttgaccg acatgaactg tacacagaat tgttccagta ctatggagtg ctcaaaagg 840
 atacttttac aggttaagac aaagggttga ctggcctatt tatctgatca agaacatgtc 900
 agcaatgtct ctttgtgctc taaaattcta ttatactaca ataatatatt gtaaagatcc 960
 tatagctctt tttttttgag atggagtttc gcttttggtg ccagaggctgg agtgcaatgg 1020
 cgcgatcttg gctcaccata acctccgcct cccaggttca agcaattctc ctgccttagc 1080

```

ctcctgagta gctgggatta caggcgtgcg ccactatgcc tgactaattt thtagtttta 1140
gtagagacgg ggtttctcca tgttggtcag gctgggtctca aactcctgac cttaggtgat 1200
ctgcccgcct cagcctccca aagtgctgga attacaggcg tgagccacca cgcctggctg 1260
gatcctatat cttaggtaag acatataacg cagtctaatt acatttcact tcaaggctca 1320
atgctattct aactaatgac aagtattttc tactaaacca gaaattggta gaaggattta 1380
aataagtaaa agctactatg tactgcctta gtgctgatgc ctgtgtactg ccttaaagt 1440
acctatggca atttagctct cttgggttcc caaatccctc tcacaagaat gtgcagaaga 1500
aatcataaag gatcagagat tctg 1524

```

```

<210> 6
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (47)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (92)..(95)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (386)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (408)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (427)
<223> n = gat or c

```

```

<400> 6
taaaatttta aagaaacaat gattaggttt atttgcattg gccaggnaat atcctacatt 60
tattgttaca aaaaccatgt tatcacgtta gntgngaatt ctttagaagc accggctaaa 120
taagcttttag aaatggaatg ccttcaatgg ctcaatctca gaaatggcaa aattctagga 180
cacatcaaga cctgctcttc cgctttccac tagttcccaa tctttgattt ccaggttttg 240
gccctttcaa acccattttt tgcgtttctg aaatcaagaa tagcttgaga aatctcttca 300
ttggtgttca tcacaaatgg gaccatgttg ggataactgg gttctcttaa tggctcccca 360
gcaattaaga caaagtgggc ttctcntggg gatccctgtt ctccaccngg ggcactatca 420

```

cctttttncca a

431

<210> 7

<211> 1318

<212> DNA

<213> Homo sapiens

<400> 7

```
ctcctctagg cgcgcggccg cgaagcgctg agtcacggtg aggcgactgg acccacactc 60
tcttaacctg ccctccctgc actcgctccc ggcggctctt cgcgtcaccc ccgcccgttaa 120
ggctccaggt gccgctaccg cagcgtgagt acctgggggt cctgcagggg tccactagcc 180
ctccatcctc tacagctcag catcagaaca ctctcttttt agactccgat atgggggtcct 240
ccaagaaagt tactctctca gtgctcagcc gggagcagtc ggaaggggtt ggagcgaggg 300
tccggagaag cattggcaga cccgagttaa aaaatctgga tccgttttta ctgtttgatg 360
aatttaaaag aggtagacca ggaggatttc ctgatcatcc acatcgaggt tttgaaacag 420
tatactacct cctggaaggg ggcagcatgg cccatgaaga cttctgtgga cacactggta 480
aaatgaaccc aggagatttg cagtggatga ctgcgggccg gggcattctg cacgctgaga 540
tgcccttgctc agaggagcca gcccatggcc tacaactgtg ggttaatttg aggagctcag 600
agaagatggt ggagcctcag taccaggaac tgaaaagtga agaaatccct aaaccagta 660
aggatggtgt gacagttgct gtcatttctg gagaagccct ggaataaaag tccaagggtt 720
acactcgcac accaacctta tatttggact tcaaattgga cccaggagcc aaacattccc 780
aacctatccc taaaggggtg acaagcttca tttacacgat atctggagat gtgtatattg 840
ggcccgatga tgcacaacaa aaaatagaac ctcatcacac agcagtgctt ggagaagggtg 900
acagtgtcca ggtggagaac aaggatccca agagaagcca ctttgtctta attgctgggg 960
agccattaag agaaccagtt atccaacatg gtccatttgt gatgaacacc aatgaagaga 1020
tttctcaagc tattcttgat ttcagaaacg caaaaaatgg gtttgaaagg gccaaaacct 1080
ggaaatcaaa gattgggaac tagtggaag cggaagagca ggtcttgatg tgcctagaa 1140
ttttgccatt tctgagattg agccattgaa ggcattccat ttctaaagct tatttagccg 1200
gtgcttctaa agaattccac actaacgtga taccatggtt tttgtaacaa taaatgtagg 1260
atatttcctg gcacatgcaa ataaacctaa tcattgtttc tttaaaaaaa aaaaaaaa 1318
```

<210> 8

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (180)

<223> n = gat or c

<220>

<221> misc_feature

<222> (360)

<223> n = gat or c

<220>
 <221> misc_feature
 <222> (396)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (465)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (433)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (441)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (456)
 <223> n = gat or c

<400> 8
 ttccactttc acattaaaaat gaataactat atttttaacc ctctattcat aacacacaca 60
 aaaagggttat attaggcttt tctacagaga gtacagaaat agaaaagtca ctactaaata 120
 caaataacat tgacagttac caagaaagaa gaatttgcag ctgtcactgt gccgtagn 180
 tgatgaatgc aggttttagt ttggccatct gctccagtga ggaaggacgg atgccattat 240
 ctttggaac tgtatctttt cctattaaaa aaatgaattt ttttaactct atggggacca 300
 caagccttat atatcttctc cacagggaat atgcttttaa aattaccaa accaaatggn 360
 aatataaacc cttccctatt cactggaggg gaaggnggtt ttataattat cctattntcc 420
 aaattttaac ctnagggctt naaggccatg gggggnatcc tcctnatggc tttcctaaan 480
 ggggggcncc cnttttctnt aggggccntc cttcccggcc gggccggnnt ctg 533

<210> 9
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<400> 9
 cttgctccga gagggagtcc tcgcggacgt cagccaagat tccagaatga ctatcttgac 60
 ttaccccttt aaaaatcttc ccactgcac aaaatgggcc ctgagatttt ccataagacc 120
 tctgagctgt tctcccagc tacgagctgc ccagctgtc cagaccaaaa cgaagaagac 180
 gttagccaaa cccaatataa ggaatgttgt ggtggtggat ggtgttcgca ctccattttt 240
 gctgtctggc acttcatata aagacctgat gccacatgat ttggctagag cagcgcttac 300

```

gggtttgttg catcggacca gtgtccctaa ggaagtagtt gattatatca tctttggtac 360
agttattcag gaagtgaaaa caagcaatgt ggctagagag gctgcccttg gagctggctt 420
ctctgacaag actcctgctc aactgtcac catggcttgt atctctgcca accaagccat 480
gaccacaggt gttggcttga ttgcttctgg ccagtgatgat gtgatcgtgg caggtgggtgt 540
tgagttgatg tccgatgtcc ctattcgtca ctcaaggaaa atgagaaaaac tgatgcttga 600
tctcaataag gccaaatcta tgggccagcg actgtcttta atctctaaat tccgatttaa 660
tttcttagca cctgagctcc ctgctgttctc tgagttctcc accagtgaga ccatgggcca 720
ctctgcagac cgactggccg ctgcttctgc tgtttctcgg ctggaacagg atgaatatgc 780
actgcgctct cacagtctag ccaagaaggc acaggatgaa ggactccttt ctgatgtggt 840
acccttcaaa gtaccaggaa aagatacagt taccaaagat aatggcatcc gtccttcctc 900
actggagcag atggccaaac taaaacctgc attcatcaag ccctacggca cagtgcacgc 960
tgcaaatctt tctttcttga ctgatggtgc atctgcaatg ttaatcatgg cggaggaaaa 1020
ggctctggcc atgggttata agccgaaggc atatttgagg gattttatgt atgtgtctca 1080
ggatccaaaa gatcaactat tacttggacc aacatatgct actccaaaag ttctagaaaa 1140
ggcaggattg accatgaatg atattgatgc ttttgaattt catgaagctt tctcgggtca 1200
gatttttgga aatttttaaag ccatggattc tgattggttt gcagaaaact acatgggtag 1260
aaaaaccaag gttggattgc ctcttttga gaagttaaat aactggggtg gatctctgtc 1320
cctgggacac ccatttggag ccactggctg caggttggtc atggctgctg ccaacagatt 1380
acggaaagaa ggaggccagt atggcttagt ggctgcgtgt gcagctggag ggcagggcca 1440
tgctatgata gtggaagctt atccaaaata atagatccag aagaagtgac ctgaagtttc 1500
tgtgcaacac tcacactagg caatgccatt tcaatgcatt actaaatgac atttgtagtt 1560
cctagctcct cttaggaaaa cagttcttgt ggccttctat taaatagttt gcacttaagc 1620
cttgccagtg ttctgagctt ttcaataatc agtttactgc tctttcaggg atttctaagc 1680
caccagaatc tcacatgaga tgtgtgggtg gttgtttttg gtctctgttg tcaactaaaga 1740
ctaaatgagg gtttgcagtt gggaaagagg tcaactgaga tttggaaatc atctttgtaa 1800
tatttgcaaa ttatacttgt tcttatctgt gtcctaaaga tgtgttctct ataaaaatca 1860
aaccaacgtg cctaattaat tatggaaaaa taattcagaa tctaaacacc actgaaaaact 1920
tataaaaaat gtttagatac ataaatatgg tggtcagcgt taataaagtg gagaaatatt 1980
ggaaaaaaaa a 1991

```

```

<210> 10
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (11)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (239)
<223> n = gat or c

```

```

<220>
<221> misc_feature

```

<222> (328)

<223> n = gat or c

<220>

<221> misc_feature

<222> (359)

<223> n = gat or c

<400> 10

```
tttttttttt ntcggtctga aaaaataatc cgtttaattg aaaaacctgg gaggatacta 60
ttccactccc ccagatgagg aggctgagga gaccagaccc ctacatcacc tcgtagccac 120
ttctgatact cttcacgagg cagcaggcaa agacaattcc caaaacctcg acaaaagcaa 180
ttccaagggc tgctgcagct accaccagca catttttcct cagccagccc ccaatcttnt 240
ccacacagcc ctcttatgg atcgcttct cgttgaaatt aatcccacag cccacagtaa 300
cattaatggc aggcaggagg tcggggganc ggttctttcg gacatgggaa gggtttttnt 360
cccaatctgt gtagttaggc aggcccccaca                               390
```

<210> 11

<211> 873

<212> DNA

<213> Homo sapiens

<400> 11

```
tagagagccc cggagccgcg gcgggagagg aacgcgcagc cagccttggg aagcccaggc 60
ccggcagcca tggcggtgga aggaggaatg aaatgtgtga agttcttgct ctacgtcctc 120
ctgctggcct tttgcgcctg tgcagtggga ctgattgccg tgggtgtcgg ggcacagctt 180
gtcctgagtc agaccataat ccagggggct acccctggct ctctgttgcc agtggtcatc 240
atcgcagtgg gtgtcttctc cttcctggtg gcttttgtgg gctgctgcgg ggcctgcaag 300
gagaactatt gtcttatgat cacgtttgcc atctttctgt ctcttatcat gttggtggag 360
gtggccgcag ccattgctgg ctatgtgttt agagataagg tgatgtcaga gtttaataac 420
aacttccggc agcagatgga gaattacccg aaaaacaacc acactgcttc gatcctggac 480
aggatgcagg cagattttaa gtgctgtggg gctgctaact acacagattg ggagaaaatc 540
ccttccatgt cgaagaaccg agtccccgac tcctgctgca ttaatgttac tgtgggctgt 600
gggattaatt tcaacgagaa ggcgatccat aaggagggct gtgtggagaa gattgggggc 660
tggctgagga aaaatgtgct ggtggtagct gcagcagccc ttggaattgc ttttgtcgag 720
gttttgggaa ttgtctttgc ctgctgcctc gtgaagagta tcagaagtgg ctacgagggtg 780
atgtaggggt ctggtctcct cagcctcctc atctggggga gtggaatagt atcctccagg 840
tttttcaatt aaacggatta ttttttcaga ccg                               873
```

<210> 12

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (65)
<223> n = gat or c

<220>
<221> misc_feature
<222> (117)
<223> n = gat or c

<220>
<221> misc_feature
<222> (131)
<223> n = gat or c

<220>
<221> misc_feature
<222> (192)
<223> n = gat or c

<220>
<221> misc_feature
<222> (207)
<223> n = gat or c

<220>
<221> misc_feature
<222> (254)
<223> n = gat or c

<220>
<221> misc_feature
<222> (266)
<223> n = gat or c

<220>
<221> misc_feature
<222> (303)
<223> n = gat or c

<400> 12
tttttttttt ttttcccaga gaccagaaat gtggcatttt aattgaataa cttcatactt 60
gcttnataat tgtatatatta acataaataa tgtccacttg tcacatttat atttctntta 120
aacaatcaat nagtatatta tgaattagtg tctgtacagt gaaaaataag gtagttgtta 180
aaaaaactta antttttatt ggttttncct acataataaa aaatcagtaa ctatagccac 240
tttagggcaa ccanaaaatc ctcccnga atataatttt ttacattggt atattacact 300
ttnataa 307

<210> 13

<211> 4286

<212> DNA

<213> Homo sapiens

<400> 13

```
gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatcctga gagcactccc 60
aggtaggcat ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccctgg 120
aggatcaaca cagtggctga aactgggaa ggaactggta cttggagtct ggacatctga 180
aacttggtct tgaactgctg cagcggccac cggacgcctt ctggagcagg tagcagcatg 240
cagccgcctc caagtctgtg cggacgcgcc ctggttgccg tggttcttgc ctgcccctg 300
tcgcggtatc ggggagagga gagaggcttc ccgctgaca gggccactcc gcttttgcaa 360
accgcagaga taatgacgcc acccactaag accttatggc ccaagggttc caacgccagt 420
ctggcgcggt cgttggcacc tgcggagggt cctaaaggag acaggacggc aggatctccg 480
ccacgcacca tctcccctcc cccgtgccaa ggacctatcg agatcaagga gactttcaaa 540
tacatcaaca cgttgtgtc ctgccttgtg ttcgtgctgg ggatcatcgg gaactccaca 600
cttctgagaa ttatctacaa gaacaagtgc atgcgaaacg gtcccaatat cttgatcgcc 660
agcttggctc tgggagacct gctgcacatc gtcattgaca tccctatcaa tgtctacaag 720
ctgctggcag aggactggcc atttgagact gagatgtgta agctggtgcc tttcatacag 780
aaagcctccg tgggaatcac tgtgctgagt ctatgtgctc tgagtattga cagatatcga 840
gctgttgctt cttggagtag aattaaagga attggggttc caaatggac agcagtagaa 900
attgttttga tttgggtggt ctctgtggtt ctggctgtcc ctgaagccat aggttttgat 960
ataattacga tggactacaa aggaagtatt ctgcgaatct gcttgcttca tcccgttcag 1020
aagacagctt tcatgcagtt ttacaagaca gcaaaagatt ggtggctggt cagtttctat 1080
ttctgcttgc cattggccat cactgcattt ttttatacac taatgacctg tgaaatgttg 1140
agaaagaaaa gtggcatgca gattgcttta aatgatcacc taaagcagag acgggaagtg 1200
gccaaaaccg tcttttgctt ggtccttgtc tttgccctct gctggcttcc ccttcacctc 1260
agcaggattc tgaagctcac tctttataat cagaatgatc ccaatagatg tgaacttttg 1320
agctttctgt tggatttgga ctatattggt atcaacatgg cttcactgaa ttcttgcatt 1380
aaccaattg ctctgtattt ggtgagcaaa agattcaaaa actgctttaa gtcattgctta 1440
tgctgctggt gccagtcatt tgaagaaaaa cagtccttgg aggaaaagca gtcgtgctta 1500
aagttaaaag ctaatgatca cggatatgac aacttccgtt ccagtaataa atacagctca 1560
tcttgaaaga agaactattc actgtatttc attttcttta tattggaccg aagtcattaa 1620
aacaaaatga aacatttgcc aaaacaaaac aaaaaactat gtatttgac agcacactat 1680
taaaatatta agtgaatta ttttaacact cacagctaca tatgacattt tatgagctgt 1740
ttacggcatg gaaagaaaaa cagtgggaat taagaaagcc tcgtcgtgaa agcacttaat 1800
tttttacagt tagcacttca acatagctct taacaacttc caggatattc acacaact 1860
taggcttaaa aatgagctca ctcagaattt ctattctttc taaaaagaga tttattttta 1920
aatcaatggg actctgatat aaaggaagaa taagtactg taaaacagaa cttttaaatg 1980
aagcttaaat tactcaattt aaaattttta aatcctttta aacaactttt caattaatat 2040
tatcacacta ttatcagatt gtaattagat gcaaatgaga gagcagttta gttgttgcatt 2100
ttttcggaac ctggaaacat ttaaattgatc aggagggagt aacagaaaga gcaaggctgt 2160
ttttgaaaat cattacactt tcaatagaag cccaaacctc agcattctgc aatatgtaac 2220
caacatgtca caaacaagca gcatgtaaca gactggcaca tgtgccagct gaatttaaaa 2280
tataatactt ttaaaaagaa aattattaca tcctttacat tcagttaaga tcaaacctca 2340
caaagagaaa tagaatgttt gaaaggctat cccaaaagac ttttttgaat ctgtcattca 2400
cataccctgt gaagacaata ctatctacaa ttttttcagg attattaaaa tcttcttttt 2460
tcactatcgt agcttaaaact ctgtttggtt ttgtcatctg taaatactta cctacatata 2520
ctgcatgtag atgattaaat gagggcaggc cctgtgctca tagctttacg atggagagat 2580
```

```

gccagtgacc tcataataaa gactgtgaac tgcctgggtgc agtgtccaca tgacaaaggg 2640
gcaggtagca ccctctctca cccatgctgt ggtaaataatg gtttctagca tatgtataat 2700
gctatagtta aaatactatt tttcaaaatc atacagatta gtacatttaa cagctacctg 2760
taaagcttat tactaatttt tgtattattht ttgtaaatag ccaatagaaa agtttgcttg 2820
acatgggtgt tttctttcat ctagaggcaa aactgcttht tgagaccgta agaacctctt 2880
agctttgtgc gttcctgcct aattttttata tcttctaagc aaagtgcctt aggatagctt 2940
gggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aaatgaggtg 3000
gggttgagg aaacccatgg ggacagattc ccattcttag cctaacgttc gtcattgcct 3060
cgtcacatca atgcaaaagg tcctgatttt gttccagcaa aacacagtgc aatgttctca 3120
gagtgacttt cgaaataaat tgggcccaag agctttaact cggctctaaa atatgcccaa 3180
atthtttactt tgtthttctt ttaataggct gggccacatg ttggaaataa gctagtaatg 3240
ttgtthttctg tcaatattga atgtgatggt acagtaaacc aaaacccaac aatgtggcca 3300
gaaagaaaaga gcaataataa ttaattcaca caccatattg attctattta taaatcacc 3360
acaaacttgt tctttaattt catcccaatc actthttcag aggcctgta tcatagaagt 3420
catthttagac tctcaatttt aaatttaatt tgaatcacta atathttcac agthttattaa 3480
tatathttaat ttctathttaa atthtttagatt atthtttatta ccatgtactg aathttttaca 3540
tcctgatacc cthttccttct ccatgtcagt atcatgttct ctaattatct tgccaaattt 3600
tgaaactaca cacaaaaagc atacttgcat tathttataat aaaattgcat tcagtggctt 3660
thtaaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat 3720
thctthtacat actcaaaacc aagatagaaa aagggtgctat cgttcaactt caaaacatgt 3780
thcctagtat taaggactth aatatagcaa cagacaaaat tathgttaac atggatgta 3840
cagctcaaaa gatthtataa agaththtaac ctaththtct ccttathatc cactgctaath 3900
gtggatgtat gttcaaacac cthtttagtat tgatagctta catatggcca aaggaataca 3960
gtthtatagca aaacatgggt atgctgtagc taactthtata aaagtgtaat ataacaatgt 4020
aaaaaattat atatctggga ggaththttg gttgcctaaa gtggctatag thactgattt 4080
thtathatgt aagcaaaacc aataaaaatt taagththtt taacaactac cthaththttc 4140
actgtacaga cactaattca ttaaatacta attgattgtt taaaagaaat ataaatgtga 4200
caagtggaca thaththtgt taaatataca attatcaagc aagtatgaag thattcaatt 4260
aaaatgccac atthctgggtc tctggg

```

```

<210> 14
<211> 395
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (214)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (268)
<223> n = gat or c

```

```

<400> 14
thththththt ththtgcaca tcaactcctth attatactga tatggaaaaa ggaththtagta 60

```

cagttatgct	cagatgaaca	ctggacccat	gtggcagggt	caagcaacta	gaacatgatt	120
cagaaatcag	tgaaagatac	acttggacag	gaccaagagg	catttccactg	ccatgaaaca	180
aggcaggaag	ggatttcta	acacacacca	gggnagcact	cctgcccctc	agagggtcaag	240
gagctgatcc	tatattggta	tgagggantg	ggcttatttt	ctgatgacca	catgtgggga	300
ctttttcaac	cgccacaagg	aaaccccaga	aggggttatt	gttttgtatt	atatatacta	360
tacttttttt	aattaaaagt	aaatttaaca	cataa			395

<210> 15

<211> 1709

<212> DNA

<213> Homo sapiens

<400> 15

ggcgggggtg	ccgcatcccc	agcccgccgc	catggccgcc	tacaaaactgg	tgctgatccg	60
gcacggcgag	agcgcatgga	acctggagaa	ccgcttcagc	ggctggtacg	acgccgacct	120
gagcccggcg	ggccacgagg	aggcgaagcg	cgcggggcag	gcgctacgag	atgctggcta	180
tgagtttgac	atctgcttca	cctcagtgc	gaagagagcg	atccggaccc	tctggacagt	240
gctagatgcc	attgatcaga	tgtggctgcc	agtggtgagg	acttggcgcc	tcaatgagcg	300
gcactatggg	ggtctaaccg	gtctcaataa	agcagaaaact	gctgcaaagc	atgggtgaggc	360
ccagggtgaag	atctggaggc	gctcctatga	tgtcccacca	cctccgatgg	agcccgacca	420
tcctttctac	agcaacatca	gtaaggatcg	caggatgca	gacctcacag	aagatcagct	480
acctcctgt	gagagtctga	aggatactat	tgccagagct	ctgcccttct	ggaatgaaga	540
aatagttccc	cagatcaagg	aggggaaacg	tgtactgatt	gcagcccatg	gcaacagcct	600
ccggggcatt	gtcaagcatc	tggagggtct	ctctgaagag	gctatcatgg	agctgaacct	660
gccgactgg	attcccattg	tctatgaatt	ggacaagaac	ttgaagccta	tcaagcccat	720
gcagtttctg	ggggatgaag	agacggtgcg	caaagccatg	gaagctgtgg	ctgcccagg	780
caaggccaag	aagtgaaggc	cgcgggggag	gatactgtcc	ccaggagcac	cctccctgcc	840
cgtcttgctc	ctctgcccct	cccacctgca	catgtcacac	tgaccacatc	tgtagacatc	900
ttgagttgta	gctgcagacg	gggaccagt	gctcccattt	tcatttttagc	cattttgtcg	960
cctgcaccca	ctcccttcat	acaatctagt	cagaatagca	gttctagagc	acaggttctc	1020
agtctaagct	atggaaaagc	tccccttata	caacagagtt	taaaagtagt	gacttgggtt	1080
tttgcgagt	ctttgtttac	taaggacttt	ggggaggaac	catgctaagc	catgaccagt	1140
gaggagaagc	aacagagcct	gtctgtcccc	atgagcggag	tctgtcctct	gctcttctgc	1200
agtcagggtca	ctgcctactg	cctgggggct	ctagtcattc	cagtggaaga	cgaatgtaac	1260
ctgcgtggtg	atgtgacaac	tgtttcctcc	ctgaccccag	aggatctggc	tctagggttg	1320
gatcaatcct	gaatttcgtt	atgtgttaat	ttacttttat	taaaaaagta	tagtatatat	1380
aatacaaaaac	aataaccctt	ctgggggttt	ttgtggcggt	tgaaatagtc	ccacatgtgg	1440
tcatcagaaa	tagcattcct	cataccaata	taggatcagc	tccttgacct	ctgaggggtc	1500
aggagtgcct	cctggtgtgt	gtattagaat	cccttctctg	cttgtttcat	ggcagtgaac	1560
tgccctcttg	tcctgtccag	tgtatctttc	actgatctct	gaatcatgtt	ctagttgctt	1620
gaccctgcc	catgggtcca	gtgttcattc	gagcataact	gtactaaatc	ctttttccat	1680
atcagtataa	taaaggagt	atgtgcaat				1709

<210> 16

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (26)

<223> n = gat or c

<220>

<221> misc_feature

<222> (90)

<223> n = gat or c

<220>

<221> misc_feature

<222> (324)

<223> n = gat or c

<220>

<221> misc_feature

<222> (337)

<223> n = gat or c

<220>

<221> misc_feature

<222> (348)

<223> n = gat or c

<220>

<221> misc_feature

<222> (368)

<223> n = gat or c

<400> 16

```
tttttttttt ttaacaaaact caaaantact tgtgctttta tttaaaaaaa aaatacaatc 60
aagggtactgt ccagaaatgt ttgggaaaaan aagatctctt gaaaaatcct tagttttcat 120
catcatcatc atcattatta tattaataat attaatacata tccttaaaat ggaaacagta 180
ttgcttttct gggtttctgtt gtatgaaatg taaaaaaagg gatggcttcc aatgacacat 240
ttaatctttg ctaacaaaaa taatgacaat taattataca gcttcatgta aaatcggctg 300
gggtctaaacc aacctacccc tgtncatcct cccctntcc cattcccngg ggccacctgg 360
gggggggnaa aaaccctttt gcgttgt 387
```

<210> 17

<211> 7560

<212> DNA

<213> Homo sapiens

<400> 17

accggccaca	gcctgcctac	tgtcaccgcg	ctctcccgcg	cgagataca	cgcccccgcc	60
tccgtgggca	caaaggcagc	gctgctgggg	aactcggggg	aacgcgcacg	tgggaaccgc	120
cgagctcca	cactccaggt	acttcttcca	aggacctagg	tctctcgccc	atcggaaga	180
aaataattct	ttcaagaaga	tcagggacaa	ctgatttgaa	gtctactctg	tgcttctaaa	240
tccccaattc	tgctgaaagt	gaatccctag	agccctagag	cccagcagc	accagccaa	300
accacctcc	accatggggg	ccatgactca	gctgttgga	ggtgtcttc	ttgctttcct	360
tgccctcgct	accgaaggtg	gggtcctcaa	gaaagtcac	cggcacaagc	gacagagtgg	420
ggtgaacgcc	accctgccag	aagagaacca	gccagtgggt	tttaaccacg	tttacaacat	480
caagctgcca	gtgggatccc	agtgttcggt	ggatctggag	tcagccagtg	gggagaaaga	540
cctggcaccg	ccttcagagc	ccagcgaaag	ctttcaggag	cacacagtag	atggggaaaa	600
ccagattgtc	ttcacacatc	gcacaaacat	ccccgcggg	gcctgtgggt	gtgccgcagc	660
ccctgatgtt	aaggagctgc	tgagcagact	ggaggagctg	gagaacctgg	tgtcttcct	720
gagggagcaa	tgtactgcag	gagcaggctg	ctgtctccag	cctgccacag	gccgcttgga	780
caccaggccc	ttctgtagcg	gtcggggcaa	cttcagcact	gaaggatgtg	gctgtgtctg	840
cgaacctggc	tggaaaggcc	ccaactgtct	tgagcccgaa	tgtccaggca	actgtcacct	900
tcgaggccgg	tgcatgatg	ggcagtgcac	ctgtgacgac	ggcttcacgg	gcgaggactg	960
cagccagctg	gcttgcccca	gcgactgcaa	tgaccagggc	aagtgcgtga	atggagtctg	1020
catctgtttc	gaaggctacg	ccggggctga	ctgcagccgt	gaaatctgcc	cagtgccttg	1080
cagtgaggag	cacggcacat	gtgtagatgg	cttgtgtgtg	tgccacgatg	gctttgcagg	1140
cgatgactgc	aacaagcctc	tgtgtctcaa	caattgctac	aaccgtggac	gatgcgtgga	1200
gaatgagtgc	gtgtgtgatg	agggtttcac	gggcgaagac	tgagtgcagc	tcactgtccc	1260
caatgactgc	ttcgaccggg	gccgctgcat	caatggcacc	tgctactgcg	aagaaggctt	1320
cacaggtgaa	gactgcggga	aaccacactg	cccacatgcc	tgccacaccc	agggccggtg	1380
tgaggagggg	cagtgtgtat	gtgatgaggg	ctttgccggg	ttggactgca	gcgagaagag	1440
gtgtcctgct	gactgtcaca	atcgtggccg	ctgtgtagac	gggcggtgtg	agtgtgatga	1500
tggttttact	ggagctgact	gtggggagct	caagtgtccc	aatggctgca	gtggccatgg	1560
ccgtgtgtgc	aatgggcagt	gtgtgtgtga	tgagggctat	actggggagg	actgcagcca	1620
gctacgggtg	cccaatgact	gtcacagtgc	gggccgctgt	gtcgagggca	aatgtgtatg	1680
tgagcaaggc	ttcaagggtc	atgactgcag	tgacatgagc	tgccctaata	actgtcacca	1740
gcacggccgc	tgtgtgaatg	gcacgtgtgt	ttgtgatgac	ggctacacag	gggaagactg	1800
ccgggatcgc	caatgccccca	gggactgcag	caacaggggc	ctctgtgtgg	acggacagtg	1860
cgtctgtgag	gacggcttca	ccggccctga	ctgtgcagaa	ctctcctgtc	caaatgactg	1920
ccatggccag	ggtcgctgtg	tgaatgggca	gtgcgtgtgc	catgaaggat	ttatgggcaa	1980
agactgcaag	gagcaaagat	gtcccagtga	ctgtcatggc	cagggccgct	gcgtggacgg	2040
ccagtgcac	tgccacgagg	gcttcacagg	cctggactgt	ggccagcact	cctgccccag	2100
tgactgcaac	aacttaggac	aatgcgtctc	gggccgctgc	atctgcaacg	agggtctacg	2160
cggagaagac	tgctcagagg	tgtctcctcc	caaagacctc	gttgtgacag	aagtgcagga	2220
agagacggtc	aacctggcct	gggacaatga	gatgcgggtc	acagagtacc	ttgtcgtgta	2280
cacgcccacc	cacgaggggtg	gtctggaaat	gcagttccgt	gtgcctgggg	accagacgtc	2340
caccatcatc	caggagctgg	agcctgggtg	ggagtacttt	atccgtgtat	ttgccatcct	2400
ggagaacaag	aagagcattc	ctgtcagcgc	caggggtggc	acgtacttac	ctgcacctga	2460
aggcctgaaa	ttcaagtcca	tcaaggagac	atctgtggaa	gtggagtggg	atcctctaga	2520
cattgctttt	gaaacctggg	agatcatctt	ccggaatatg	aataaagaag	atgagggaga	2580
gatcaccaaa	agcctgagga	ggccagagac	ctcttaccgg	caaactggtc	tagctcctgg	2640
gcaagagtat	gagatatctc	tgacatatgt	gaaaaacaat	acccggggcc	ctggcctgaa	2700
gaggggtgac	accacacgct	tggatgcccc	cagccagatc	gaggtgaaag	atgtcacaga	2760
caccactgcc	ttgatcacct	ggttcaagcc	cctggctgag	atcgatggca	ttgagctgac	2820
ctacggcatc	aaagacgtgc	caggagaccg	taccaccatc	gatctcacag	aggacgagaa	2880

ccagtactcc	atcggaacc	tgaagcctga	caactgagtag	gaggtgtccc	tcattctccc	2940
cagaggtgac	atgtcaagca	accagccaa	agagaccttc	acaacaggcc	tcgatgctcc	3000
caggaatctt	cgacgtgttt	cccagacaga	taacagcatc	accctggaat	ggaggaatgg	3060
caaggcagct	attgacagtt	acagaattaa	gtatgcccc	atctctggag	gggaccacgc	3120
tgaggttgat	gttccaaaga	gccaaacaagc	cacaaccaa	accacactca	caggtctgag	3180
gccgggaact	gaatatggga	ttggagtttc	tgctgtgaag	gaagacaagg	agagcaatcc	3240
agcgaccatc	aacgcagcca	cagagttgga	cacgcccag	gaccttcagg	tttctgaaac	3300
tgacagagacc	agcctgaccc	tgctctggaa	gacaccgttg	gccaaatttg	accgctaccg	3360
cctcaattac	agtctcccca	caggccagt	ggtgggagt	cagcttccaa	gaaacaccac	3420
ttcctatgtc	ctgagaggcc	tggaaccagg	acaggagtac	aatgtcctcc	tgacagccga	3480
gaaaggcaga	cacaagagca	agcccgacg	tgtgaaggca	tccactgaac	aagccccga	3540
gctggaaaac	ctcaccgtga	ctgaggttgg	ctgggatggc	ctcagactca	actggaccgc	3600
ggctgaccag	gcctatgagc	actttatcat	tcaggtgcag	gaggccaaca	aggtggaggc	3660
agctcggaac	ctcaccgtgc	ctggcagcct	tcgggctgtg	gacataccgg	gcctcaaggc	3720
tgctacgcct	tatacagtct	ccatctatgg	ggtgatccag	ggctatagaa	caccagtgtc	3780
ctctgctgag	gcctccacag	gggaaaactcc	caattttggga	gaggtcgtgg	tggtccgaggt	3840
gggctgggat	gccctcaaac	tcaactggac	tgctccagaa	ggggcctatg	agtacttttt	3900
cattcaggtg	caggaggctg	acacagtaga	ggcagcccag	aacctcaccg	tcccaggagg	3960
actgaggtcc	acagacctgc	ctgggctcaa	agcagccact	cattatacca	tcaccatccg	4020
cggggtcact	caggacttca	gcacaacccc	tctctctgtt	gaagtcttga	cagaggaggt	4080
tccagatatg	ggaaacctca	cagtgaaccga	ggttagctgg	gatgctctca	gactgaactg	4140
gaccacgcca	gatggaacct	atgaccagtt	tactattcag	gtccaggagg	ctgaccaggt	4200
ggaagaggct	cacaatctca	cggttcctgg	cagcctgcgt	tccatggaaa	tcccaggcct	4260
cagggtctggc	actccttaca	cagtcaccct	gcacggcgag	gtcagggggc	acagcactcg	4320
acccttctgt	gtagaggctg	tcacagagga	tctcccacag	ctgggagatt	tagccgtgtc	4380
tgaggttggc	tggtatggcc	tcagactcaa	ctggaccgca	gctgacaatg	cctatgagca	4440
ctttgtcatt	caggtgcagg	aggtcaacaa	agtggaggca	gcccagaacc	tcacgttgcc	4500
tggtcagcctc	agggctgtgg	acatcccggg	cctcgaggct	gccacgcctt	atagagtctc	4560
catctatggg	gtgatccggg	gctatagaac	accagtactc	tctgctgagg	cctccacagc	4620
caaagaacct	gaaattggaa	acttaaatgt	ttctgacata	actcccagaga	gcttcaatct	4680
ctcctggatg	gctaccgatg	ggatcttcga	gacctttacc	attgaaatta	ttgattccaa	4740
taggttgctg	gagactgtgg	aatataatat	ctctggtgct	gaacgaactg	cccatatctc	4800
agggctaccc	cctagtactg	attttattgt	ctacctctct	ggacttgctc	ccagcatccg	4860
gacaaaaacc	atcagtgcc	cagccacgac	agaggccctg	ccccttctgg	aaaacctaac	4920
catttccgac	attaatccct	acgggttcac	agtttctctg	atggcatcgg	agaatgcctt	4980
tgacagcttt	ctagtaacgg	tggtggattc	tggaagctg	ctggaccccc	aggaattcac	5040
actttcagga	accagagga	agctggagct	tagaggcctc	ataactggca	ttggctatga	5100
ggttatggtc	tctggcttca	cccaagggca	tcaaaccaag	cccttgaggg	ctgagattgt	5160
tacagaagcc	gaaccggaag	ttgacaacct	tctggtttca	gatgccaccc	cagacggttt	5220
ccgtctgtcc	tggtacagctg	atgaaggggt	cttcgacaat	ttgtttctca	aaatcagaga	5280
tacaaaaaag	cagtctgagc	cactggaaat	aacctactt	gccccgaac	gtaccaggga	5340
cttaacaggt	ctcagagagg	ctactgaata	cgaaattgaa	ctctatggaa	taagcaaagg	5400
aaggcgatcc	cagacagtca	gtgctatagc	aacaacagcc	atgggctccc	caaagggaagt	5460
cattttctca	gacatcactg	aaaattcggc	tactgtcagc	tggagggcac	ccacggccca	5520
agtggagagc	ttccggatta	cctatgtgcc	cattacagga	ggtacaccct	ccatggtaac	5580
tgtggacgga	accaagactc	agaccaggct	ggtgaaactc	atacctggcg	tggtgtacct	5640
tgtcagcatc	atcgccatga	agggctttga	ggaaagtga	cctgtctcag	ggtcattcac	5700
cacagctctg	gatggcccat	ctggcctgg	gacagccaac	atcactgact	cagaagcctt	5760

```

ggccaggtgg cagccagcca ttgccactgt ggacagttat gtcattctct acacaggcga 5820
gaaagtgcc aaaattacac gcacggtgtc cggaacaca gtggagtatg ctctgaccga 5880
cctcgagcct gccacggaat acacactgag aatctttgca gagaaagggc cccagaagag 5940
ctcaaccatc actgccaagt tcacaacaga cctcgattct ccaagagact tgactgctac 6000
tgaggttcag tcggaactg ccctccttac ctggcgaccc ccccgggcat cagtcaccgg 6060
ttacctgctg gtctatgaat cagtggatgg cacagtcaag gaagtcattg tgggtccaga 6120
taccacctcc tacagcctgg cagacctgag cccatccacc cactacacag ccaagatcca 6180
ggcactcaat gggcccctga ggagcaatat gatccagacc atcttcacca caattggact 6240
cctgtacccc ttcccaagg actgctccca agcaatgctg aatggagaca cgacctctgg 6300
cctctacacc atttatctga atggtgataa ggctcaggcg ctggaagtct tctgtgacat 6360
gacctctgat gggggtggat ggattgtgtt cctgagacgc aaaaacggac gcgagaactt 6420
ctacccaaac tggaaggcat atgctgctgg atttggggac cgcagagaag aattctggct 6480
tgggctggac aacctgaaca aaatcacagc ccaggggcag tacgagctcc ggggtggacct 6540
gcgggaccat ggggagacag ctttgctgt ctatgacaag ttcagcgtgg gagatgccaa 6600
gactcgctac aagctgaagg tggaggggta cagtgggaca gcaggtgact ccatggccta 6660
ccacaatggc agatccttct ccacctttga caaggacaca gattcagcca tcaccaactg 6720
tgctctgtcc tacaaagggg ctttctggtg caggaaactgt caccgtgtca acctgatggg 6780
gagatatggg gacaataacc acagtcaggg cgtaaactgg ttccactgga agggccacga 6840
aactcaatc cagtttgctg agatgaagct gagaccaagc aacttcagaa atcttgaagg 6900
caggcgcaaa cgggcataaa ttggaggggac cactgggtga gagaggaata aggcggccca 6960
gagcgaggaa aggattttac caaagcatca atacaaccag cccaaccatc ggtccacacc 7020
tgggcatttg gtgagaatca aagctgacca tggatccctg gggccaacgg caacagcatg 7080
ggcctcacct cctctgtgat ttctttcttt gcaccaaaga catcagtctc caacatgttt 7140
ctgttttggt gtttgattca gcaaaaatct cccagtgaac acatcgcaat agtttttttac 7200
ttctcttagg tggctctggg atgggagagg ggtaggatgt acaggggtag tttgttttag 7260
aaccagccgt attttacatg aagctgtata attaattgtc attatttttg ttagcaaaga 7320
ttaaatgtgt cattggaagc catccctttt ttacattttc atacaacaga aaccagaaaa 7380
gcaatactgt ttccatttta aggatatgat taatattatt aatataataa tgatgatgat 7440
gatgatgaaa actaaggatt tttcaagaga tctttctttc caaacattt ctggacagta 7500
cctgattgta tttttttttt aaataaaagc acaagtactt ttgaaaaaaa accggaattc 7560

```

```

<210> 18
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (49)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (86)..(89)
<223> n = gat or c

```

```

<220>

```

<221> misc_feature
 <222> (95)..(99)
 <223> n = gat or c

<400> 18
 ggaggggtgac aacacatctc ttaggcagag cagtgacagg ctgtgccna aagtccaaac 60
 aggccaggca gagaagggca gggacagggc tcaggctgag aagaacagct ggcgtccagg 120
 caggggtggcc agaacgggtt gggcaciaaag gatgggcccg cagctaaagt catttggtgc 180
 ggcgcntcna gcatntccnt agggaaggt 209

<210> 19
 <211> 5421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2019)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (213)..(216)
 <223> n = gat or c

<400> 19
 gaattccggc gccggggggc gcccggccgc cgcccgtgc ctgcgccgc ggccgggcat 60
 gagttagtgc cagacatgga caccaaacat ttctgtccgc tcgatttctc caccaggtg 120
 aactcctccc tcacctcccc gacggggcga ggctccatgg ctgccccctc gctgcacccg 180
 tccctggggc ctggcatcgg ctccccggga cagctgcatt ctcccatcag caccctgagc 240
 tcccccatca acggcatggg ccgcctttc tcggatcatca gctcccccat gggccccac 300
 tccatgtcgg tgcccaccac acccaccctg ggcttcagca ctggcagccc ccagctcagc 360
 tcacctatga accccgtcag cagcagcgag gacatcaagc cccccctggg cctcaatggc 420
 gtcctcaagg tccccgcca cccctcagga aacatggctt ccttcaccaa gcacatctgc 480
 gccatctgcg gggaccgctc ctcaggcaag cactatggag tgtacagctg cgaggggtgc 540
 aagggtttct tcaagcggac ggtgcgcaag gacctgacct acacctgccg cgacaacaag 600
 gactgcctga ttgacaagcg gcagcggaac cggtgccagt actgccgcta ccagaagtgc 660
 ctggccatgg gcatgaagcg ggaagccgtg caggaggagc ggcagcgtgg caaggaccgg 720
 aacgagaatg aggtggagtc gaccagcagc gccaacgagg acatgccggt ggagaggatc 780
 ctggaggctg agctggccgt ggagcccaag accgagacct acgtggaggc aaacatgggg 840
 ctgaacccca gctcgccgaa cgaccctgtc accaacattt gccaaagcagc cgacaaacag 900
 cttttcaccc tgggtggagtg ggccaagcgg atcccacact tctcagagct gccctggac 960
 gaccaggtca tctgtctgcg ggcaggctgg aatgagctgc tcatcgctc cttctccac 1020
 cgctccatcg ccgtgaagga cgggatcctc ctggccaccg ggctgcacgt ccaccggaac 1080
 agcggccaca gcgcaggggt gggcgccatc ttgacaggg tgctgacgga gcttgtgtcc 1140
 aagatgcggg acatgcagat ggacaagacg gagctgggct gcctgcgcgc catcgctcctc 1200
 tttaacctcg actccaaggg gctctcgaac ccggccgagg tggaggcgct gagggagaag 1260

gtctatgcgt	ccttgagggc	ctactgcaag	cacaagtacc	cagagcagcc	gggaaggttc	1320
gctaagctct	tgctccgcct	gccggctctg	cgctccatcg	ggctcaaagt	cctggaacat	1380
ctcttcttct	tcaagctcat	cggggacaca	cccattgaca	ccttccttat	ggagatgctg	1440
gaggcgccgc	accaaagtac	ttaggcctgc	gggcccaccc	tttgtgccc	cccgttctgg	1500
ccaccctgcc	tggacgccag	ctgttcttct	cagcctgagc	cctgtccctg	cccttctctg	1560
cctggcctgt	ttggactttg	gggcacagcc	tgtcactgct	ctgcctaaga	gatgtgttgt	1620
caccctcctt	atttctgtta	ctacttgtct	gtggcccagg	gcagtggctt	tcctgagcag	1680
cagccttcgt	ggcaagaact	agcgtgagcc	cagccaggcg	cctccccacc	gggctctcag	1740
gacgccctgc	cacaccacag	gggcttgggc	gactacaggg	tcttcggccc	cagccctgga	1800
gctgcaggag	ttgggaacgg	ggcttttgtt	tccgttgctg	tttatcgatg	ctggttttca	1860
gaattcctgt	gtggccctcc	tgtctggagt	gacatcttca	tctgctctga	atactgggtc	1920
ccagccagcc	cgtgacagct	tcccccta	caggagggga	cagctggggg	cgcaagctgg	1980
tgtgtcatca	gcaaagacct	cagccgcctc	gggatgana	ggggactcgt	ggggcaagca	2040
agctgccctg	tgctctgagt	gagggggaag	gtagcccctt	tttccaaagg	taactcacag	2100
ttttgccctc	gagccaatga	gaacatgagc	tgccctctgt	gcaaggtttc	ggggccacct	2160
ccaggctgca	ggggcgggtc	actcgccccc	ctgttttctc	tctgccttgg	tgttctgggt	2220
tcagactccc	gactccccgt	tcagaccaga	gtgcccagc	ccctccccag	cctgagtctt	2280
ctccttgctc	tgcggggtgg	gctgagactt	gtccttgttt	cctgcagggc	tggccctggc	2340
tcgggcaggg	tggggcatca	ccacctcact	ggccttgctg	gaggcacagg	gctctgcgga	2400
cctgcagcca	tctgtgaggc	ccgcggggat	ggggggggag	gagggtgggc	tgttggtttc	2460
cctcagaggg	ggcagggtgg	ctggagagag	aggggctcag	gaactgggag	cctggtgggt	2520
ggggcagatg	ctccgcggcc	tggagtgggt	ctgccggggc	attggtggga	cccctgctca	2580
ggccttctct	ctggctgcca	gttgtgtcta	aaagactctt	ggaatctgag	aaccgggagt	2640
cgcagcgcgc	tcgggcctgg	gccacacgca	ggccctggtg	ggaccacca	gcctggtatt	2700
gtccacggac	agcgttggtc	acccagagcc	ttacttggga	gcctcactga	acgcctgctc	2760
tggttgaagg	tggggtgggg	gcggggcttg	gggcctccct	ggctcagccc	agtgcggcct	2820
ggcgctcctc	ccgcaggctc	tgcccccggg	ctccggtggt	gcggggccct	ctcaggttga	2880
actcgctctc	tttgactagg	aaggctcctc	ctttggcctg	agtacttttc	ctgttcacgc	2940
ctcagtcccg	tggaccacag	ctttgtcagt	ggcagggtgc	tgaacagagg	gtggatgggg	3000
gggataccgg	agggggtctt	gtcttcccag	ccgcagctca	ggaatgatgc	gggggggtgg	3060
acgccttctc	catagtcttt	ccccacctgg	agcaggggct	tcctcagtgg	tgaggggagc	3120
tgcctacagg	ttggaccggg	aggcagtggc	ttggagaggc	agctttccag	ccttgggtgg	3180
gaagaaagtg	tccattcttt	gccttcctgg	agctcccagc	cagagctgag	cttaggcacc	3240
cgagtggagc	ctgcagctga	gtctgtgccc	gagacaggct	gtcagagatt	ccagaagcct	3300
ctcctccccg	ccgccctcca	cccctgcctt	tcagcgttgt	ggatccctag	aggtggcccc	3360
ctgcccgatc	caccgtcctg	aggcagagtg	ttgagcctca	tacctgtacc	aggtccccgg	3420
ccagctgggc	ccctcccagg	cactgccagg	aagccccagc	tgcccctggc	gggtgtgggt	3480
gaaatggcag	gaggggtgcag	gtactcttgg	ggccccagcg	gtgggagtgc	aaaagaccca	3540
acgccaacac	ctgggtgcctt	ttgcagccag	cgccccacca	tccgtgcccg	gacccttggg	3600
aatgcccgcg	gctccagagg	aaaaagccca	gggacggggc	ctccgttgcg	gggggtcggc	3660
tgcttcttgg	gaactttgtc	gtttccggcg	ctggctggct	ggctggctgt	aaagcactga	3720
agcccccccg	ccgccaaacc	ctgaaagcag	aacctggcct	ccctggccac	agcagcctta	3780
cccaccgctc	tacgtgtccc	gggcacttcc	cgcagccttc	ccgtcccttt	ctcatcggcc	3840
ttgtagttgt	acagtgtctg	tggtttgaaa	aggtgatgtg	tggggagtgc	ggctcatcac	3900
tgagtagaga	ggtagaattt	ctatttaacc	agacctgtag	tagtattacc	aatccagttc	3960
aattaagggtg	attttctgta	attattatta	ttttgggtgg	acaatcttta	atnttntctaa	4020
agatagcact	aacatcagct	cattagccac	ctgtgcctgt	ccccgccttg	gcccggctgg	4080
atgaagcggc	ttccccgcag	ggccccact	tcccagtggc	tgcttcctgg	ggaccagggg	4140

```

caccccgcca ccttcaggca cgctcctcag ctggtcacct cccggctttg ccgttcagat 4200
ggggctcctg aggctcagga gtgaagatgc cacagagccg ggctccccta ggctgcgtcg 4260
ggcatgcttg gaagctggcc tgccaggacc ttccaccctg gggcctgtgt cagccgccgg 4320
ccctccgcac cctggaagca cacggcctct ggggaaggaca gccctgacct tcggttttcc 4380
gagcacggtg tttcccaaga attctgggct ggcggcctgg tggcagtgtc ggagatgacc 4440
ccgagcccct ccccggtggg caccaggag gaccctgccg gaatgtgcag cctgtgggta 4500
gtcggctggt gtccctgtcg tggagctggg gtgcgtgatc tgggtgtcgt ccacgcaggt 4560
gtgtggtgta aacatgtatg tgctgtacag agagacgcgt gtggagagag ccgcacacca 4620
gcgccacca ggaaaggcgg agcggttacc agtgttttgt gtttattttt aatcaagacg 4680
tttcccctgt tttcctataa atttgcttcg tgtaagcaag tacataagga ccctcctttg 4740
gtgaaatccg ggttcgaatg aatatctcaa ggcaggagat gcatctattt taagatgctt 4800
tggagcagac agcttttagcc gttcccaatc cttagcaatg ccttagctgg gacgcatagc 4860
taatacttta gagaggatga cagatccata aagagagtaa agataagaga aaatgtctaa 4920
agcatctgga agggtaaaaa aaaaaatcta tttttgtaca aatgtaattt tatccctcat 4980
gtatacttgg atatggcggg gggagggtg ggactgtttc gtttctgctt ctagagattg 5040
aggtgaaaagc ttcgtccgag aaacgccagg acagacgatg gcagaggaga gggctcctgt 5100
gacggcggcg aggcttggga ggaaaccgcc gcaatggggg tgtcttccct cggggcagga 5160
gggtgggcct gtggctttca agggttttct tccctttcga gtaattttta aagccttgct 5220
ctgttgtgtc ctgttgccgg ctctggcctt tctgtgactg actgtgaagt ggcttctccg 5280
tacgattgtc tctgaaacat cgtggccgca ggtgcagggg ttgatggaca gtagcattag 5340
aattgtggaa aaggaacacg caaagggaga agtgtgagag gagaaacaaa atatgagcgt 5400
ttaaaataca tcgccattca g
5421

```

```

<210> 20
<211> 481
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (475)..(478)
<223> n = gat or c

```

```

<400> 20
agatgttcac aattcagttt attcaggcaa catattggct gttttcagtg tggacagcta 60
cacttaagag caaacatgat gaatctattg agaattcaga ggtagccttt atctgcattt 120
ttttttaaac taaaagggtat ttaggaacca ccttctgtca tcgaattatc attaaaagct 180
tccatatcag cagtaatgca aggccaaataa gaacaattcc agcaaccaca ccagctacaa 240
ttggaatgat gtctggacca gtgggacact ctggattctc cacaacatga accatgacct 300
cgttgttccc attcactgaa tacgtaaaat agaaccaaca gtccgtcaac atccttctcc 360
tttacaatgg gacacaggat caggttggga ccggctgggg gtaatttgtc ccgactttct 420
acottgggta atgttaaaat aggaacattc ctgtgtgcat gtgtccttcc tttcnccntt 480
a
481

```

```

<210> 21
<211> 3614

```

<212> DNA

<213> Homo sapiens

<400> 21

```
gtccgccaaa acctgcgcgg ataggggaaga acagcacccc ggcgccgatt gccgtaccaa 60
acaagcctaa cgtccgctgg gccccggacg ccgcgcggaa aagatgaatt tacaaccaat 120
tttctggatt ggactgatca gttcagtttg ctgtgtgttt gctcaaacag atgaaaatag 180
atgtttaaaa gcaaatgcc aatcatgtgg agaatgtata caagcagggc caaattgtgg 240
gtggtgcaca aattcaacat ttttacagga aggaatgcct acttctgcac gatgtgatga 300
tttagaagcc ttaaaaaaga agggttgccc tccagatgac atagaaaatc ccagaggctc 360
caaagatata aagaaaaata aaaatgtaac caaccgtagc aaaggaacag cagagaagct 420
caagccagag gatattcatc agatccaacc acagcagttg gttttgcgat taagatcagg 480
ggagccacag acatttacat taaaattcaa gagagctgaa gactatccca ttgacctcta 540
ctaccttatg gacctgtctt attcaatgaa agacgatttg gagaatgtaa aaagtcttgg 600
aacagatctg atgaatgaaa tgaggaggat tacttcggac ttcagaattg gatttggctc 660
atltgtggaa aagactgtga tgccttacat tagcacaaca ccagctaagc tcaggaaccc 720
ttgcacaagt gaacagaact gcaccacccc atttagctac aaaaatgtgc tcagtcttac 780
taataaagga gaagtattta atgaacttgt tggaaaacag cgcatatctg gaaatttggg 840
ttctccagaa ggtggtttcg atgccatcat gcaagttgca gtttgtggat cactgattgg 900
ctggaggaat gttacacggc tgctggtgtt ttccacagat gccgggtttc actttgctgg 960
agatgggaaa cttggtggca ttgttttacc aaatgatgga caatgtcacc tggaaaataa 1020
tatgtacaca atgagccatt attatgatta tccttctatt gctcaccttg tccagaaact 1080
gagtgtaaaat aatattcaga caatttttgc agttactgaa gaatttcagc ctgtttacaa 1140
ggagctgaaa aacttgatcc ctaagtgcgc agtaggaaca ttatctgcaa attctagcaa 1200
tgtaattcag ttgatcattg atgcatacaa ttccctttcc tcagaagtca ttttggaaaa 1260
cggcaaattg tcagaaggag taacaataag ttacaaatct tactgcaaga acggggtgaa 1320
tggaacaggg gaaaatggaa gaaaatgttc caatatattcc attggagatg aggttcaatt 1380
tgaaattagc ataacttcaa ataagtgtcc aaaaaggat tctgacagct ttaaaattag 1440
gcctctgggc ttacggagg aagtagaggt tattcttcag tacatctgtg aatgtgaatg 1500
ccaaagcgaa ggcattccctg aaagtcccaa gtgtcatgaa ggaaatggga catttgagtg 1560
tggcgcgtgc aggtgcaatg aagggcgtgt tggtagacat tgtgaatgca gcacagatga 1620
agttaacagt gaagacatgg atgcttactg caggaaagaa aacagttcag aaatctgcag 1680
taacaatgga gagtgcgtct gcggacagtg tgtttgtagg aagagggata atacaaatga 1740
aatattattct ggcaaattct gcgagtgtga taatttcaac tgtgatagat ccaatggctt 1800
aatltgtgga ggaaatgggtg tttgcaagtg tctgtgtgtg gagtgcaacc ccaactacac 1860
tggcagtgca tgtgactgtt ctttggatac tagtacttgt gaagccagca acggacagat 1920
ctgcaatggc cggggcatct gcgagtgtgg tgtctgtaag tgtacagatc cgaagtttca 1980
agggcaaacg tgtgagatgt gtcagacctg ccttgggtgtc tgtgctgagc ataaagaatg 2040
tgttcagtgc agagccttca ataaaggaga aaagaaagac acatgcacac aggaatgttc 2100
ctattttaac attaccaagg tagaaagtgc ggacaaatta cccagccgg tccaacctga 2160
tcctgtgtcc cattgtaagg agaaggatgt tgacgactgt tggttctatt ttacgtattc 2220
agtgaatggg aacaacgagg tcatggttca tgttgtggag aatccagagt gtcccactgg 2280
tccagacatc attccaattg tagctggtgt ggttgctgga attgttctta ttggccttgc 2340
attactgctg atatggaagc ttttaatgat aattcatgac agaagggagt ttgctaaatt 2400
tgaaaaggag aaaatgaatg ccaaagggga cacgggtgaa aatcctattt ataagagtgc 2460
cgtaacaact gtggtcaatc cgaagtatga gggaaaatga gtactgcccg tgcaaatccc 2520
acaacactga atgcaaagta gcaatttcca tagtcacagt taggtagctt tagggcaata 2580
ttgcatggt tttactcatg tgcaggtttt gaaaatgtac aatatgtata atttttaaaa 2640
```

```

tgttttatta ttttgaaaat aatgttgtaa ttcatgccag ggactgacaa aagacttgag 2700
acaggatggt tattcttgtc agctaaggct acattgtgcc tttttgacct tttcttcctg 2760
gactattgaa atcaagctta ttggattaag tgatatttct atagcgattg aaagggcaat 2820
agttaaagta atgagcatga tgagagtttc tgттаатсат gtattaaaac tgatttttag 2880
ctttacatat gtcagtttgc agttatgcag aatccaaagt aaatgtcctg ctagctagtt 2940
aaggattggt ttaaатсtgt tattttgcta tttgcctggt agacatgact gatgacatat 3000
ctgaaagaca agtatgttga gagttgctgg tgtaaaatac gtttgaaata gttgatctac 3060
aaaggccatg ggaaaaattc agagagttag gaaggaaaaa ccaatagctt taaaacctgt 3120
gtgccatttt aagagttact таатgtttgg таacttttat gccttcactt tacaaattca 3180
agccttagat aaaagaaccg agcaattttc tgctaaaaag tccttgattt agcactattt 3240
acatacaggc catactttac aaagtatttg ctgaatgggg accttttgag ttgaatttat 3300
tttattattt ttattttggt таатgtctgg tgctttctat cacctottct aatcttttaa 3360
tgtatttggt tgcaattttg gggtaaagact tttttatgag tactttttct ttgaagtttt 3420
agcggтсaat ttgccttttt аатгаасatg tgaagttata ctgtggctat gcaacagctc 3480
tcacctacgc gagtcttact ttgagttagt gccataacag accactgtat gtttacttct 3540
caccatttga gttgcccatc ttgtttcaca ctagtcacat tcttgtttta agtgccttta 3600
gttttaacag ttca 3614

```

```

<210> 22
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (4)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (6)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (7)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (8)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (162)
<223> n = gat or c

```


<220>
 <221> misc_feature
 <222> (268)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (345)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (388)
 <223> n = gat or c

<400> 22
 tagnannnta ccaggtttta ttatcttttt atcaaaaaaa atcagtaaca gacaacagtg 60
 tgagaggtgc ctacagagga ggtgctcact ccaacacagc ccaaggggaa gggcactggg 120
 ggacagaagag gacccagcca gctgggaccc tgggttgacag tngtgacggg agctaattggc 180
 cactggtgca gcaagggagg gtggttcccc tcaccgcagc cactggggtc aggaggagac 240
 acgacctgcc caggctaagc caccaggncct cccctctcag gagagggagg gtcccagaca 300
 acaggcccca gctgggggtct catcagccct cccccattcc ccccnccctcc ttacccaggg 360
 ggagacaagg gtcggttccag cacagctnag gct 393

<210> 23
 <211> 2613
 <212> DNA
 <213> Homo sapiens

<400> 23
 gcgcgccttc tccagtccgc ggtgccatgg cccccgcccg tctgttcgcg ctgctgctgc 60
 tcttcgtagg cggagtcgcc gagtcgatcc gagagactga ggtcatcgac cccaggacc 120
 tcctagaagg ccgatacttc tccggagccc taccagacga tgaggatgta gtggggcccg 180
 ggcaggaatc tgatgacttt gagctgtctg gctctggaga tctggatgac ttggaagact 240
 ccatgatcgg ccctgaagtt gtccatccct tgggtgcctct agataaccat atccctgaga 300
 gggcaggggc tgggagccaa gtccccaccg aacccaagaa actagaggag aatgagggtta 360
 tccccaaagag aatctcaccg gttgaagaga gtgaggatgt gtccaacaag gtgtcaatgt 420
 ccagcactgt gcagggcagc aacatctttg agagaacgga ggtcctggca gctctgattg 480
 tgggtggcat cgtgggcatc ctctttgccc tcttcctgat cctactgctc atgtaccgta 540
 tgaagaagaa ggatgaaggc agctatgacc tgggcaagaa acccatctac aagaaaagccc 600
 ccaccaatga gttctacgcg tgaagcttgc ttgtgggcac tggcttggac tttagcgggg 660
 agggaagcca ggggattttg aagggtggac attagggtag ggtgagggtca acctaatact 720
 gacttgtcag tatctccagc tctgattacc tttgaagtgt tcagaagaga cattgtcttc 780
 tactgttctg ccaggttctt cttgagcttt gggcctcagt tgccctggca gaaaaatgga 840
 ttcaacttgg cctttctgaa ggcaagactg ggattggatc acttcttaaa cttccagtta 900
 agaatctagg tccgcctca agccatact gaccatgcct catccagagc tcctctgaag 960

```

ccagggggct aacggatggt gtgtggagtc ctggctggag gtcctcccc agtggccttc 1020
ctcccttcct ttcacagccg gtctctctgc caggaaatgg gggaaggaac tagaaccacc 1080
tgcaccttga gatgtttctg taaatgggta cttgtgatca cactacggga atctctgtgg 1140
tatataacctg gggccattct aggcctcttc aagtgacttt tggaaatcaa ccttttttat 1200
ttggggggga ggatggggaa aagagctgag agtttatgct gaaatggatt tatagaatat 1260
ttgtaaactc atttttagtg tttgttcgtt tttttaactg ttcattcctt tgtgcagagt 1320
gtatatctct gcctgggcaa gagtgtggag gtgccgaggt gtcttcattc tctcgcacat 1380
ttccacagca cctgctaagt ttgtatttaa tggtttttgt ttttgttttt gtttgtttct 1440
tgaaaatgag agaagagccg gagagatgat ttttattaat tttttttttt tttttttttt 1500
tactatttat agcttttagat agggcctccc ttcccctctt ctttctttgt tctctttcat 1560
taaaccctct ccccgatttt ttttttatac tttaaacccc gctcctcatg gccttggccc 1620
tttctgaagc tgcttcctct tataaaatag cttttgccga aacatagttt ttttttagca 1680
gatcccaaaa tataatgaag gggatggttg gataatttgt tctgtgttct tataatatat 1740
tattattctt ccttggttct agaaaaatag ataaatatat ttttttcagg aaatagtgtg 1800
gtgtttccag tttgatgttg ctgggtggtt gagtgagtga attttcatgt ggctgggttg 1860
gtttttgcct ttttctcttg ccctgttctt ggtgccttct gatggggctg gaatagtgtg 1920
ggtggatggt tctacccttt ctgccttctg tttgggacc agctgggtgtt ctttggtttg 1980
ctttcttcag gctctagggc tgtgctatcc aatacagtaa ccacatgcg ctgtttaaag 2040
ttaagccaat taaaatcaca taagattaaa aattccttcc tcagttgcac taaccacgtt 2100
tctagaggcg tcaactgtatg tagttcatgg ctactgtact gacagcgaga gcatgtccat 2160
ctgttggaac gcactattct agagaactaa actggcttaa cgagtcacag cctcagctgt 2220
gctgggacga cccttgtctc cctgggtagg ggggggggaa tgggggaggg ctgatgaggc 2280
cccagctggg gcctgttgtc tgggaccctc cctctcctga gaggggaggg ctggtggctt 2340
agcctgggca ggtcgtgtct cctcctgacc ccagtggctg cgggtgagggg aaccaccctc 2400
ccttgctgca ccagtggcca ttagctcccg tcaccactgc aaccaggggt cccagctggc 2460
tgggtcctct tctgccccca gtgcccttcc ccttgggctg tgttgagtg agcacctcct 2520
ctgtaggcac ctctcacact gttgtctgtt actgattttt tttgataaaa agataataaa 2580
acctggtact ttctaaaaaa aaaaaaaaaa aaa 2613

```

```

<210> 24
<211> 522
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (498)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (504)..(507)
<223> n = gat or c

```

```

<400> 24
agcttacaca gtgtttatatt gacactgaaa cgaagagctt ctgtacaata gaaagcacag 60
tgtgtgcctg gctctaaggc aggatgctaa gagagagAAC cagggtcagc tggagaatat 120

```

```

acaaatgcag agctcagaga ggtgggacat ccagctcgac gagggagtct tgggagaagt 180
gaagcaaaga aacttatatg gaagtcatat cgttgagagc gtggtccagc tcctcgctga 240
tggctttgta cttcagtttc tgagcgtaca gctcgtcttc taagtcatca atgcttttct 300
ccaatttagt tactgacctc tccgcaaact cagcccgagt ctgagcctcc ttcagcttgt 360
cggaaggac cttgatctct tcctcatatc tgtcttcctt ctgaggtac ttctcagcct 420
gagcctccag tgacttcaaa gttgttcgtc acagttttca attttcttca agctcggcac 480
atttgccttc tgagagtnag ccgntcntct gcacgttcca gg 522

```

<210> 25

<211> 1043

<212> DNA

<213> Homo sapiens

<400> 25

```

ccgcgcgctc gccccgccgc tcctgctgca gccccaggcc cctcgccgcc gccaccatgg 60
acgccatcaa gaagaagatg cagatgctga agctcgacaa ggagaacgcc ttggatcgag 120
ctgagcaggc ggaggccgac aagaaggcgg cggaagacag gagcaagcag ctggaagatg 180
agctggtgtc actgcaaaaag aaactcaagg gcaccgaaga tgaactggac aaatactctg 240
aggctctcaa agatgccag gagaaagctgg agctggcaga gaaaaaggcc accgatgctg 300
aagccgacgt agcttctctg aacagacgca tccagctggg tgaggaagag tgagagttag 360
agaggcatga aagtcattga gagtcgagcc caaaaagatg aagaaaaaat ggaaattcag 420
gagatccaac tgaaagaggc caagcacatt gctgaagatg ccgaccgcaa atacgaagag 480
gtggcccgta agctgggtcat cattgagagc gacctggaac gtgcagagga gcgggctgag 540
ctctcagaag gcaaatgtgc cgagcttgaa gaagaattga aaactgtgac gaacaacttg 600
aagtcactgg aggctcaggc tgagaagtac tcgcagaagg aagacagata tgaggaagag 660
atcaagggtc tttccgacaa gctgaaggag gctgagactc gggctgagtt tgcggagagg 720
tcagtaacta aattggagaa aagcattgat gacttagaag acgagctgta cgctcagaaa 780
ctgaagtaca aagccatcag cgaggagctg gaccacgctc tcaacgatat gacttccata 840
taagtttctt tgcttcaact ctcccaagac tccctcgctg agctggatgt cccacctctc 900
tgagctctgc atttgtctat tctccagctg accctggttc tctctcttag catcctgcct 960
tagagccagg cacacactgt gctttctatt gtacagaagc tcttcgtttc agtgtcaaat 1020
aaacactgtg taagctaaaa aaa 1043

```

<210> 26

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (183)

<223> n = gat or c

<220>

<221> misc_feature

<222> (211)

<223> n = gat or c

<220>

<221> misc_feature

<222> (279)

<223> n = gat or c

<220>

<221> misc_feature

<222> (307)..(310)

<223> n = gat or c

<220>

<221> misc_feature

<222> (345)..(350)

<223> n = gat or c

<220>

<221> misc_feature

<222> (361)

<223> n = gat or c

<220>

<221> misc_feature

<222> (380)

<223> n = gat or c

<220>

<221> misc_feature

<222> (388)

<223> n = gat or c

<400> 26

```
gccgtgggggt gggaaagtgg gaaggtggag ttttccccag tggcagtgct tagcttggat 60
cctgagagagg agtaccagggt ggaggggttgt ctcaggcacc atcctcctgc cctgggctgc 120
tggggagccc ctatcagcag gctgagcggg gctaggggtt ttggaagggc agaggacata 180
gcntccagca ggatggacct cagccgcagt naggcagcta caggaatcct tagggctctg 240
ctgggttggg gggtcagctc ctctgcagc tccaggggnt tcaggataac ctccaccctc 300
atccatnttn acatagagga tttcgtcagg ctctgggggc aggangcaan gcctttcagt 360
ntgttctcca aatcttcccn caactctnta aaacttt 397
```

<210> 27

<211> 4986

<212> DNA

<213> Homo sapiens

<400> 27

gagtggagtt	ctggaggaat	gtttaccaga	cacagagccc	agagggacag	cgcccagagc	60
ccagatagag	agacacggcc	tactggctc	agcaccagg	ttcccctccc	cctcctcagc	120
ttcccctctg	gcccctttaa	gaaagagctg	atcctctcct	ctcttgagtt	aaccctgat	180
tgtccaggtg	gcccctggct	ctggcctgg	ggcgagggc	aaagggggag	ccagggggcg	240
agaaaggggt	gcccaggtct	gggagtgagg	gaaggaggca	gggtgctga	gaaggcggct	300
gctgggcaaa	gccggtggca	agggcctccc	ctgccgctgt	gccaggcagg	cagtgcacaa	360
ttcggggagc	ctggagctgg	ggggagggcc	ggggacagcc	cgccctgcc	ccctcccccg	420
ctgggagccc	agcaacttct	gaggaaagtt	tggcaccat	ggcgtggcgg	tgccccagga	480
tgggcagggt	cccgtggcc	tgggtgcttg	cgctgtgcgg	ctgggcgtgc	atggcccca	540
ggggcacgca	ggctgaagaa	agtccttcg	tgggcaacc	aggaatatc	acaggtgcc	600
ggggactcac	gggcaccctt	cgggtgcagc	tccaggttca	gggagagccc	cccaggttac	660
attggcttcg	ggatggacag	atcctggagc	tcgcggacag	caccagacc	caggtgcccc	720
tgggtgagga	tgaacaggat	gactggatag	tggtcagcca	gctcagaatc	acctccctgc	780
agctttccga	cacgggacag	taccagtgtt	tgggttttct	gggacatcag	accttcgtgt	840
cccagcctgg	ctatgttggg	ctggagggct	tgcttactt	cctggaggag	cccgaagaca	900
ggactgtggc	cgccaacacc	cccttcaacc	tgagctgcca	agctcaggga	ccccagagc	960
ccgtggacct	actctggctc	caggatgctg	ttcccctggc	cacggctcca	ggtcacggcc	1020
cccagcgag	cctgcatgtt	ccagggtga	acaagacatc	ctctttctcc	tgcaagccc	1080
ataacgcaa	gggggtcacc	acatcccga	cagccaccat	cacagtgtc	ccccagcagc	1140
cccgtaacct	ccacctggtc	ttccgccaac	ccacggagct	ggaggtggct	tggactccag	1200
gcctgagcgg	catctacccc	ctgaccact	gcacctgca	ggctgtgctg	tcagacgatg	1260
ggatgggcat	ccaggcggga	gaaccagacc	ccccagagga	gcccctcacc	tcgcaagcat	1320
ccgtgcccc	ccatcagctt	cggctaggca	gcctccatcc	tcacaccct	tatcacatcc	1380
gcgtggcatg	caccagcagc	cagggcccc	catcctggac	ccactggctt	cctgtggaga	1440
cgccggagg	agtgtccctg	ggcccccta	agaacattag	tgctacgcgg	aatgggagcc	1500
aggccttcgt	gcattggcaa	gagccccggg	cgcccctgca	gggtaccctg	ttagggtacc	1560
ggctggcgta	tcaaggccag	gacaccccag	aggtgcta	ggacatagg	ctaaggcaag	1620
aggtgaccct	ggagctgcag	ggggacgggt	ctgtgtccaa	tctgacagt	tgtgtggcag	1680
cctacactgc	tgtggggat	ggacctgga	gcctcccagt	accttgagg	gcctggcgcc	1740
cagtgaagga	accttcaact	cctgccttct	cgtggccctg	gtggtatgta	ctgctaggag	1800
cagtgcgtgg	cgctgcctgt	gtcctcatct	tggctctctt	ccttgtccac	cggcgaaaga	1860
aggagaccg	ttatggagaa	gtgtttgaac	caacagtga	aagaggtgaa	ctggtagtca	1920
ggtaccgcgt	gcgcaagtcc	tacagtcgtc	ggaccactga	agctaccttg	aacagcctgg	1980
gcatcagtga	agagctgaag	gagaagctgc	gggatgtgat	ggtggaccgg	cacaaggtgg	2040
ccctggggaa	gactctggga	gagggagagt	ttggagctgt	gatggaaggc	cagctcaacc	2100
aggacgactc	catcctcaag	gtggctgtga	agacgatgaa	gattgccatc	tgacagaggt	2160
cagagctgga	ggatttcctg	agtgaagcgg	tctgcatgaa	ggaatttgac	catccaacg	2220
tcatgaggct	catcggtgtc	tgtttccagg	gttctgaacg	agagagcttc	ccagcacctg	2280
tggctcatctt	acctttcatg	aaacatggag	acctacacag	cttcctctc	tattcccggc	2340
tcggggacca	gccagtgtac	ctgcccactc	agatgctagt	gaagtctcatg	gcagacatcg	2400
ccagtggcat	ggagtatctg	agtaccaaga	gattcataca	ccgggacctg	gcggccagga	2460
actgcatgct	gaatgagaac	atgtccgtgt	gtgtggcgga	cttcgggctc	tccaagaaga	2520
tctacaatgg	ggactactac	cgccagggac	gtatcgccaa	gatgccagtc	aagtggattg	2580
ccattgagag	tctagctgac	cgtgtctaca	ccagcaagag	cgatgtgtgg	tccttcgggg	2640
tgacaatgtg	ggagattgcc	acaagaggcc	aaaccccata	tcggggcgtg	gagaacagcg	2700
agatttatga	ctatctgcgc	cagggaaatc	gcctgaagca	gcctgcggac	tgtctggatg	2760
gactgtatgc	cttgatgtcg	cgggtgctgg	agctaaatcc	ccaggaccgg	ccaagtttta	2820
cagagctgcg	ggaagatttg	gagaacacac	tgaaggcctt	gcctcctgcc	caggagcctg	2880

```

acgaaatcct ctatgtcaac atggatgagg gtggagggtta tcctgaaccc cctggagctg 2940
caggaggagc tgacccccca acccagccag accctaagga ttctgttagc tgcctcactg 3000
cggctgaggt ccatcctgct ggacgctatg tcctctgccc ttccacaacc cctagccccg 3060
ctcagcctgc tgataggggc tccccagcag ccccagggca ggaggatggt gcctgagaca 3120
accctccacc tggtaactccc tctcaggatc caagctaagc actgccactg gggaaaactc 3180
caccttccca cttttccacc ccacgcctta tccccacttg cagccctgtc ttcctaccta 3240
tcccacctcc atcccagaca ggtccctccc cttctctgtg cagtagcatc accttgaaaag 3300
cagtagcatc accatctgta aaaggaaggg gttggattgc aatatctgaa gccctcccag 3360
gtgttaacat tccaagactc tagagtccaa ggtttaaaga gtctagattc aaaggttcta 3420
ggtttcaaag atgctgtgag tctttgggtc taaggacctg aaattccaaa gtctctaatt 3480
ctattaaagt gctaagggtc taaggcctac tttttttttt tttttttttt tttttttttt 3540
ttttgcgata gagtctcact gtgtcaccca ggctggagtg cagtggtgca atctcgacctc 3600
actgcaacct tcacctaccg agttcaagtg attttcctgc cttggcctcc caagtagctg 3660
ggattacagg tgtgtgccac cacacccggc taatttttat attttttagta gagacagggg 3720
ttcaccatgt tggccaggct ggtctaaaac tcctgacctc aagtgatctg cccacctcag 3780
cctcccaaag tgctgagatt acaggcatga gccactgcac tcaaccttaa gacctactgt 3840
tctaaagctc tgacattatg tggttttaga ttttctgggt ctaacatttt tgataaagcc 3900
tcaaggtttt aggttctaaa gttctaagat tctgatttta ggagctaagg ctctatgagt 3960
ctagatgttt attcttctag agttcagagt ccttaaaatg taagattata gattctaaaag 4020
attctatagt tctagacatg gaggttctaa ggcctaggat tctaaaatgt gatgttctaa 4080
ggctctgaga gtctagattc tctggctgta aggctctaga tcataaggct tcaaaatggt 4140
atcttctcaa gttctaagat tctaattgat atcaattata gtttctgagg ctttatgata 4200
atagattctc ttgtataaga tcctagatcc taagggtcga aagctctaga atctgcaatt 4260
caaaagtcc aagagtctaa agatggagtt tctaagggtcc ggtgttctaa gatgtgatat 4320
tctaagactt actctaagat cttagattct ctgtgtctaa gattctagat cagatgctcc 4380
aagattctag atgattaaat aagattctaa cggctctgtc tgtttcaagg cactctagat 4440
tccattggtc caagattccg gatcctaagc atctaagtta taagactctc acactcagtt 4500
gtgactaact agacacccaa gttctaataa tttctaattgt tggacacctt taggttcttt 4560
gctssattct gcctctctag gaccatgggt aagagtccaa gaatccacat ttctaaaatc 4620
ttatagttct aggcaactgta gttctaagac tcaaatgttc taagtttcta agattctaaa 4680
gggtccacagg tctagactat taggtgcaat ttcaagggtc taacctata ctgtagtatt 4740
ctttgggggtg cccctctcct tcttagctat cattgcttcc tcctcccca ctgtgggggt 4800
gtgccccctt caagcctgtg caatgcatta gggatgcctc ctttccgcag gggatggacg 4860
atctcccacc tttcggggcca tgttgcccc gtgagccaat cctcacctt ctgagtacag 4920
agtgtggact ctgggtgcctc cagagggggt caggtcacat aaaactttgt atatcaacga 4980
aaaaaa 4986

```

```

<210> 28
<211> 233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(15)
<223> n = gat or c

```

<220>

<221> misc_feature

<222> (122)

<223> n = gat or c

<220>

<221> misc_feature

<222> (216)

<223> n = gat or c

<400> 28

```
gccatcaatg atcnntgccg gctccccaca cccatggact gcccctccgc catctaccag 60
ctcatgatgc agtgctggca gcaggagcgt gcccgccgcc ccaagttcgc tgacatcgtc 120
anatgcctgg acaagctcat tcgtgcccct gactccctca agaccctggc tgactttgac 180
ccccgcgtgt ctatccgggt ccccgagcacg agcggnctcg gagggggtgc cct          233
```

<210> 29

<211> 3921

<212> DNA

<213> Homo sapiens

<400> 29

```
cggaagttgc gcgcaggccg gcgggcgggg gcggacaccg aggccggcgt gcaggcgtgc 60
gggtgtgcgg gagccgggct cgggggggatc ggaccgagag cgagaagcgc ggcattggagc 120
tccaggcagc ccgcgcctgc ttcgccctgc tgtggggctg tgcgctggcc gcggccgcgg 180
cggcgccagg caaggaagtg gtactgctgg actttgctgc agctggaggg gagctcggct 240
ggctcacaca cccgtatggc aaaggggtgg acctgatgca gaacatcatg aatgacatgc 300
cgatctacat gtactccgtg tgcaacgtga tgtctggcga ccaggacaac tggctccgca 360
ccaactgggt gtaccgagga gaggctgagc gtaacaactt tgagctcaac tttactgtac 420
gtgactgcaa cagcttccct ggtggcgcca gctcctgcaa ggagactttc aacctctact 480
atgccgagtc ggacctggac tacggcacca acttccagaa gcgcctgttc accaagattg 540
acaccattgc gcccgatgag atcaccgtca gcagcgactt cgaggcacgc cacgtgaagc 600
tgaacgtgga ggagcgctcc gtggggccgc taccgcccaa aggcctctac ctggccttcc 660
aggatatcgg tgcctgtgtg gcgctgctct ccgtccgtgt ctactacaag aagtgccccg 720
agctgctgca gggcctggcc cacttccctg agaccatcgc cggctctgat gcaccttccc 780
tggccactgt ggccggcacc tgtgtggacc atgccgtggt gccaccgggg ggtgaagagc 840
cccgtatgca ctgtgcagtg gatggcgagt ggctgggtgcc cattgggcag tgcctgtgcc 900
aggcaggcta cgagaagggt gaggatgcct gccaggcctg ctgcctgga ttttttaagt 960
ttgaggcatc tgagagcccc tgcttggagt gccctgagca cacgctgcca tcccctgagg 1020
gtgccacctc ctgcgagtggt gaggaaggct tcttccgggc acctcaggac ccagcgtcga 1080
tgccttgca cagacccccct tccgccccac actacctcac agccgtgggc atgggtgcca 1140
aggtggagct gcgctggacg cccctcagg acagcggggg ccgcgaggac attgtctaca 1200
gcgtcacctg cgaacagtgc tggcccgagt ctggggaatg cgggccgtgt gaggccagt 1260
tgcgctactc ggagcctcct cacggactga cccgcaccag tgtgacagt agcgacctgg 1320
agccccacat gaactacacc ttaccctggt agggccgcaa tggcgtctca ggcctggtaa 1380
ccagccgcag cttccgtact gccagtgtca gcatcaacca gacagagccc cccaagggtga 1440
ggctggaggg ccgcagcacc acctcgctta gcgtctcctg gagcatcccc ccgccgcagc 1500
```

agagccgagt	gtggaagtac	gaggtcactt	accgcaagaa	gggagactcc	aacagctaca	1560
atgtgcgccg	caccgagggg	ttctccgtga	ccctggacga	cctggcccca	gacaccacct	1620
acctgggtcca	ggtgcaggca	ctgacgcagg	agggccaggg	ggccggcagc	aaggtgcacg	1680
aattccagac	gctgtccccg	gagggatctg	gcaacttggc	ggtgattggc	ggcgtggctg	1740
tcggtgtggt	cctgcttctg	gtgctggcag	gagttggctt	ctttatccac	cgcaggagga	1800
agaaccagcg	tgcccgccag	tccccggagg	acgtttactt	ctccaagtca	gaacaactga	1860
agccccctgaa	gacatacgtg	gacccccaca	catatgagga	ccccaaccag	gctgtgttga	1920
agttcactac	cgagatccat	ccatcctgtg	tcactcggca	gaaggtgatc	ggagcaggag	1980
agtttgggga	ggtgtacaag	ggcatgctga	agacatcctc	ggggaagaag	gaggtgcccg	2040
tggccatcaa	gacgtgaaa	gccggctaca	cagagaagca	gcgagtggac	ttcctcggcg	2100
aggccggcat	catgggccag	ttcagccacc	acaacatcat	ccgcctagag	ggcgtcatct	2160
ccaaatacaa	gccatgatg	atcatcactg	agtacatgga	gaatggggcc	ctggacaagt	2220
tccttcggga	gaaggatggc	gagttcagcg	tgctgcagct	ggtgggcatg	ctgcggggca	2280
tcgcagctgg	catgaagtac	ctggccaaca	tgaactatgt	gcaccgtgac	ctggctgccc	2340
gcaacatcct	cgtcaacagc	aacctgggtct	gcaaggtgtc	tgacttttggc	ctgtcccccg	2400
tgctggagga	cgacccccgag	gccacctaca	ccaccagtgg	cggcaagatc	cccattccgct	2460
ggaccgcccc	ggaggccatt	tcctaccgga	agttcacctc	tgccagcgac	gtgtggagct	2520
ttggcattgt	catgtgggag	gtgatgacct	atggcgagcg	gccctactgg	gagttgtcca	2580
accacgaggt	gatgaaaagcc	atcaatgatg	gcttcgggct	ccccacaccc	atggactgcc	2640
cctccgccat	ctaccagctc	atgatgcagt	gctggcagca	ggagcgtgcc	cgccgccccca	2700
agttcgctga	catcgtcagc	atcctggaca	agctcattcg	tgccccctgac	tcctcaaga	2760
ccctggctga	ctttgacccc	cgcgtgtcta	tccggctccc	cagcacgagc	ggctcggagg	2820
gggtgccctt	ccgcacgggtg	tccgagtggc	tggagtccat	caagatgcag	cagtatacgg	2880
agcacttcat	ggcggccggc	tacactgcc	tcgagaaggt	ggtgcagatg	accaacgacg	2940
acatcaagag	gattgggggtg	cggctgccc	gccaccagaa	gcgcacgcc	tacagcctgc	3000
tgggactcaa	ggaccaggtg	aacactgtgg	ggatccccat	ctgagcctcg	acagggcctg	3060
gagccccatc	ggccaagaat	acttgaagaa	acagagtggc	ctccctgctg	tgccatgctg	3120
ggccactggg	gactttatatt	atttctagtt	ctttcctccc	cctgcaactt	ccgctgaggg	3180
gtctcggtg	acaccctggc	ctgaactgag	gagatgacca	gggatgctgg	gctgggccct	3240
ctttccctgc	gagacgcaca	cagctgagca	cttagcaggc	accgccacgt	cccagcatcc	3300
ctggagcagg	agccccgcca	cagccttcgg	acagacatat	aggatattcc	caagccgacc	3360
ttccctccgc	cttctcccac	atgaggccat	ctcaggagat	ggagggcttg	gccagcgcc	3420
aagtaaacag	ggtacctcaa	gccccatttc	ctcacactaa	gagggcagac	tgtgaacttg	3480
actgggtgag	acccaaagcg	gtccctgtcc	ctctagtgcc	ttcttttagac	cctcggggccc	3540
catcctcatc	cctgactggc	caaacccttg	ctttcctggg	cctttgcaag	atgcttggtt	3600
gtgttgaggt	ttttaaatat	atattttgta	ctttgtggag	agaatgtgtg	tgtgtggcag	3660
ggggccccgc	cagggctggg	gacagagggg	gtcaaacatt	cgtgagctgg	ggactcaggg	3720
accggtgctg	caggagtgtc	ctgcccattg	cccagtcggc	cccatctctc	atccttttgg	3780
ataagtttct	attctgtcag	tgttaaagat	tttgttttgt	tggacatttt	tttcgaatct	3840
taatttatta	ttttttttat	atttattgtt	agaaaatgac	ttattttctgc	tctggaataa	3900
agttgcagat	gattcaaacc	g				3921

<210> 30

<211> 503

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (320)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (321)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (433)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (462)
 <223> n = gat or c

<220>
 <221> misc_feature
 <222> (485)
 <223> n = gat or c

<400> 30
 ttttttttacg ctaattggca catttgcttt atttatttat ttttaaaaca aactggggttt 60
 tttgaatttt ttccctttttg ttcattccat cacattgaaa aggaggaaaa caaaaatgat 120
 tttgaattca ctcgatat tggactcctc agatgaacgg aacattgcac acacacttgg 180
 aacagagaga gagagagaga ggaaagtgga ctcccacagg gccacacgca ccagatcaaaa 240
 taacttgggga tacagtgcaa gaatttccca aaatgattga atcatcatta ccaaaaaactt 300
 ggccataaca acaccaagg nacaataaat gttaaggcc aactgtttg acttggggat 360
 ctttcctgct tttttttttt tttttttaa tgtttgccac acagggggaga aagaggggct 420
 agtgggggtg ggnaagggca ggtttcacag acgtgagccg gggcagggng gggtttcggg 480
 ttgngctga ggaaggggta ggg 503

<210> 31
 <211> 1231
 <212> DNA
 <213> Homo sapiens

<400> 31
 gaattccaga aaagagggtg agaggggggg aataagaaag agagagaagg aaaggagaga 60
 aggcaggaag aaggcaagg acgagacaac catgctgtgc tgtatgagaa gaaccaaaca 120
 ggttgaaaaa aatgatgacg accaaaagat tgaacaagat ggtatcaaac cagaagataa 180
 agctcataag gccgcaacca aaattcaggc tagcttccgt ggacacataa caaggaaaaa 240
 gctcaaagga gagaagaagg atgatgtcca agctgctgag gctgaagcta ataagaagga 300

```

tgaagcccct gttgccgatg gggaggagaa gaagggagaa ggcaccacta ctgccgaagc 360
agccccagcc actgggtcca agcctgatga gcccggcaaa gcaggagaaa ctccctccga 420
ggagaagaag ggggaggggtg atgctgccac agagcaggca gccccccagg ctccctgcac 480
ctcagaggag aaggccggct cagctgagac agaaagtgcc actaaagctt ccactgataa 540
ctcgccgtcc tccaaggctg aagatgcccc agccaaggag gagcctaaac aagccgatgt 600
gcctgctgct gtcactgctg ctgctgccac caccctgcc gcagaggatg ctgctgcaa 660
ggcaacagcc cagcctcaa cggagactgg ggagagcagc caagctgaag agaacataga 720
agctgtagat gaaaccaaac ctaaggaaag tgcccggcag gacgagggtg aagaagagga 780
acctgaggct gaccaagaac atgcctgaac tctaagaaat ggctttccac atccccaccc 840
tcccctctcc tgagcctgtc tctccctacc ctcttctcag ctccactctg aagtccttc 900
ctgtcctgct cacgtctgtg agtctgtcct tccccacca ctagccctct ttctctctgt 960
gtggcaaaaca tttaaaaaaa aaaaaaaaaa gcaggaaaga tcccaagtca aacagtgtgg 1020
ctaaacatt tttgtttct tgggtgtgtt atggcaagtt tttggtaatg atgattcaat 1080
cattttggga aattcttgca ctgtatccaa gttatttgat ctggtgcgtg tggccctgtg 1140
ggagtccact ttcctctctc tctctctctc tgttccaagt gtgtgtgcaa tgttccgttc 1200
atctgaggag tccaaaatat tgagtgaatt c 1231

```

<210> 32

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (136)

<223> n = gat or c

<220>

<221> misc_feature

<222> (353)

<223> n = gat or c

<220>

<221> misc_feature

<222> (383)

<223> n = gat or c

<220>

<221> misc_feature

<222> (411)

<223> n = gat or c

<400> 32

```

ttttttttac cgatgcaccc cacagtcagg gtgattttat ttctagaaaa ggtgacaggt 60
gctgcacgtg ggcaggagca ggtcacagtg aggaggcc aggggcatcc ccctctcaac 120
acaacctagg cgccanagcc taccggccag gtagtagcaa gggctggccc atgtagttag 180
cccagcatgg ggagacgctg agggcccatg ggcgcaaag ccagggggca gcagcctcca 240

```

aacaccgaca	gcgccacgtc	ccctggggca	ggaaaggtgg	atgccccagg	ggcacttctg	300
ttcctcctgc	tgggagggcc	tgggcaggct	tggttttcaa	ggacaccagc	cgnagggagg	360
gccttgggca	ggttggccag	ggnattagga	gggcagggga	ttgggtttag	ncagggga	418

<210> 33

<211> 2910

<212> DNA

<213> Homo sapiens

<400> 33

gcgacgcggc	gcaggcggcg	ggagtgcgag	ctgggcccgt	gtttcggccg	ccgccatggc	60
cgcggtggac	ctggagaagc	tgcgggcgtc	gggcgcgggc	aaggccatcg	gcgtcctgac	120
cagcggcggc	gacgcgcaag	gcatgaacgc	tgctgtcccg	gctgtgacgc	gcatgggcat	180
ttatgtgggt	gccaaagtct	tcctcatcta	cgagggctat	gagggcctcg	tggagggagg	240
tgagaacatc	aagcaggcca	actggctgag	cgtctccaac	atcatccagc	tgggcggcac	300
tatcattggc	agcgctcgct	gcaaggcctt	taccaccagg	gaggggcgcc	gggcagcggc	360
ctacaacctg	gtccagcacg	gcatcaccaa	cctgtgcgtc	atcggcgggg	atggcagcct	420
cacaggtgcc	aacatcttcc	gcagcgagtg	gggcagcctg	ctggaggagc	tgggtggcga	480
aggtaaagtc	tcagagacta	cagcccggac	ctactcgcac	ctgaacatcg	cgggcctagt	540
gggtccatc	gataacgact	tctgcggcac	cgacatgacc	atcggcacgg	actcggccct	600
ccaccgcac	atggagggtca	tcgatgccat	caccaccact	gcccagagcc	accagaggac	660
cttcgtgctg	gaagtgatgg	gccggcactg	cgggtacctg	gcgctggtat	ctgcactggc	720
ctcagggggc	gactggctgt	tcacccccga	ggctccaccc	gaggacggct	gggagaactt	780
catgtgtgag	aggctgggtg	agactcggag	ccgtgggtcc	cgactgaaca	tcacatcat	840
cgctgagggg	gccattgacc	gcaacgggaa	gcccattctg	tccagctacg	tgaaggacct	900
ggtgggttcag	aggctgggct	tcgacacccg	tgtaactgtg	ctgggccacg	tgcagcgggg	960
agggacgccc	tctgccttcg	accggatcct	gagcagcaag	atgggcatgg	aggcgggtgat	1020
ggcgctgctg	gaagccacgc	ctgacacgcc	ggcctgcgtg	gtcacccctc	cggggaacca	1080
gtcagtgcgg	ctgcccctca	tggagtgcgt	gcagatgacc	aaggaagtgc	agaaagccat	1140
ggatgacaag	aggtttgacg	aggccaccca	gtcccggtgt	gggagcttcg	agaacaactg	1200
gaacatttac	aagctcctcg	cccaccagaa	gcccccaag	gagaagtcta	acttctccct	1260
ggccatcctg	aatgtggggg	ccccggcggc	tggcatgaat	gcggccgtgc	gctcggcggt	1320
gcggaccggc	atctcccatg	gacacacagt	atacgtgggt	cacgatggct	tcgaaggcct	1380
agccaagggg	caggtgcaag	aagtaggctg	gcacgacgtg	gccggctggt	tggggcgtgg	1440
tggctccatg	ctggggacca	agaggaccct	gccaaggggc	cagctggagt	ccattgtgga	1500
gaacatccgc	atctatggta	ttcacgccct	gctggtggtc	ggtgggtttg	aggcctatga	1560
aggggtgctg	cagctggtgg	aggctcgcgg	gcgctacgag	gagctctgca	tcgtcatgtg	1620
tgtcatccca	gccaccatca	gcaacaacgt	ccctggcacc	gacttcagcc	tgggctccga	1680
cactgctgta	aatgccgcca	tggagagctg	tgaccgcac	aaacagtctg	cctcggggac	1740
caagcgccgt	gtgttcacatg	tggagaccat	gggggggttac	tgtggctacc	tggccaccgt	1800
gactggcatt	gctgtggggg	ccgacgccgc	ctacgtcttc	gaggaccctt	tcaacatcca	1860
cgacttaaag	gtcaacgtgg	agcacatgac	ggagaagatg	aagacagaca	ttcagagggg	1920
cctggtgctg	cggaacgaga	agtgccatga	ctactacacc	acggagtctc	tgtacaacct	1980
gtactcatca	gagggcaagg	gcgtcttcga	ctgcaggacc	aatgtcctgg	gccacctgca	2040
gcaggggtgg	cgctccaacc	ccctttgacc	ggaactatgg	gaccaagctg	ggggtgaagg	2100
ccatgctgtg	gttgtcggag	aagctgcgcg	aggtttaccg	caagggacgg	gtgttcgcca	2160
atgccccaga	ctcggcctgc	gtgatcggcc	tgaagaagaa	ggcggtggcc	ttcagccccg	2220


```

taggtgtctt ttaatgatac tgtctaagaa taatgacgta ttgtgaaatt tgttaatata 780
tataatactt aaaaatatgt gagcatgaaa ctatgcacct ataaatacta aatatgaaat 840
tttaccattt tgcgatgtgt tttattcact tgtgtttgta tataaatggg gagaattaaa 900
ataaaacggt atctcattgc aaaaatattt tattttttatc ccatctcact ttaataataa 960
aaatcatgct tataagcaac atgaattaag aactgacaca aaggacaaaa atataaagtt 1020
attaatagcc atttgaagaa ggaggaattt tagaagaggt agagaaaatg gaacattaac 1080
cctacactcg gaattc                                     1096

```

```

<210> 36
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (407)
<223> n = gat or c

```

```

<220>
<221> misc_feature
<222> (430)
<223> n = gat or c

```

```

<400> 36
tttttttttg tttctaaagt acaaattcag tttattcatc tgtttatgac acagtacaca 60
ggaggcaaaag tgtttcacat catagaactt acttccaact ccttggaatg ttcattttctt 120
tggcttacag gagagactag acaggaaggc caggcaatgc ttaggcaact aaaatgaggt 180
tgggggtaat gctaacgtca cctcacagg gatggccacg gggactgtta ttcgcaagct 240
ggttttctag acctgttagc tggaagcatg gtgagcacca tttctgggac gctcaggccg 300
tgtcgggctt cagtcatctc caccacacag gtacagcagg cgcttttctg ggtaggctcg 360
ccttagtgtc ttgctgggat attaatagta caggggactt gccgtanttt ctcttgatt 420
tcagacccan ttttcaacat gttccatttc                                     450

```

```

<210> 37
<211> 1362
<212> DNA
<213> Homo sapiens

```

```

<400> 37
catttgggga cgctctcagc tctcggcgca cggcccagct tccttcaaaa tgtctactgt 60
tcacgaaatc ctgtgcaagc tcagcttgga gggtgatcac tctacacccc caagtgcata 120
tgggtctgtc aaagcctata ctaactttga tgctgagcgg gatgctttga acattgaaac 180
agccatcaag accaaagggt tggtgaggt caccattgtc aacattttga ccaaccgcag 240
caatgcacag agacaggata ttgccttcgc ctaccagaga aggacaaaaa aggaacttgc 300
atcagcactg aagtcagcct tatctggcca cctggagacg gtgattttgg gcctattgaa 360
gacacctgct cagtatgacg cttctgagct aaaagcttcc atgaaggggc tgggaaccga 420

```

```

cgaggactct ctcatctgaga tcattctgctc cagaaccaac caggagctgc aggaaattaa 480
cagagtctac aaggaaatgt acaagactga tctggagaag gacattatct cggacacatc 540
tggtgacttc cgcaagctga tggttgccct ggcaaagggt agaagagcag aggatggctc 600
tgtcattgat tatgaactga ttgaccaaga tgctcgggat ctctatgacg ctggagtga 660
gaggaaagga actgatgttc ccaagtggat cagcatcatg accgagcggg gcgtgcccc 720
cctccagaaa gtatttgata ggtacaagag ttacagccct tatgacatgt tggaaagcat 780
caggaaagag gttaaaggag acctggaaaa tgctttcctg aacctgggtc agtgacattc 840
gaacaagccc ctgtattttg ctgatcggct gtatgactcc atgaagggca aggggacgcg 900
agataagggtc ctgatcagaa tcattggtctc ccgcagtga gtggacatgt tgaaaattag 960
gtctgaattc aagagaaagt acggcaagtc cctgtactat tatatccagc aagacactaa 1020
gggcgactac cagaaagcgc tgctgtacct gtgtggtgga gatgactgaa gcccgacacg 1080
gcctgagcgt ccagaaatgg tgctcaccat gcttccagct aacagggtcta gaaaaccagc 1140
ttgcgaataa cagtcctcgt ggccatccct gtgaggggtga cgtttagcatt accccaacc 1200
tcatttttagt tgcctaagca ttgcctggcc ttctgtctta gtctctcctg taagccaaag 1260
aatgaacat tccaaggagt tggaagtga gtctatgatg tgaaacactt tgcctcctgt 1320
gtactgtgtc ataaacagat gaataaactg aatttgtact tt 1362

```

<210> 38

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (311)

<223> n = gat or c

<220>

<221> misc_feature

<222> (389)

<223> n = gat or c

<220>

<221> misc_feature

<222> (454)

<223> n = gat or c

<220>

<221> misc_feature

<222> (470)

<223> n = gat or c

<400> 38

```

tttttttttt tttttttttt tttttaaaaca ttagtggttca tagctttcaa gagacatgct 60
gactttcatt tcttgaggta ctctgcacat acgcaccaca tctctatctg gcctttgcat 120
ggagtgaacca tagctccttc tctcttacat tgaatgtaga gaatgtagcc attgtagcag 180
cttggtgtgt cacgcttctt cttttgagca actttcttac actgaagaaa ggcagaatga 240

```

```

gtgcttcaga atgtgatttc ctactaacct gttccttgga taggcttttt agtatagtat 300
tttttttttg ncatttttctc catcagcaac cagggagact gcacctgatg gaaaagatat 360
atgactgctt catgacattc ctaaaactanc tttttttatt ccacatctac gtttttgggtg 420
gagtcacctt tgcattcattg ttttaaggat gatnaaaaaa aaatatcacn agggggggaat 480

```

<210> 39

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 39

```

aacaaactgc acccactgaa ctccgcagct agcatccaaa tcagcccttg agatttgagg 60
ccttgagagac tcaggagttt tgagagcaaa atgacaacac ccagaaattc agtaaattggg 120
actttccttg cagagccaat gaaaggccct attgctatgc aatctggtcc aaaaccactc 180
ttcaggagga tgtcttcact ggtgggcccc acgcaaagct tcttcatgag ggaatctaag 240
actttggggg ctgtccagat tatgaatggg ctcttccaca ttgccctggg gggcttctctg 300
atgatcccag cagggatcta tgcacccatc tgtgtgactg tgtggtaccc tctctgggga 360
ggcattatgt atattatttc cggatcactc ctggcagcaa cgagaaaaaa ctccaggaag 420
tgtttgggtca aaggaaaaat gataatgaat tcattgagcc tctttgctgc catttctgga 480
atgattcttt caatcatgga catacttaat attaaaattt cccatttttt aaaaatggag 540
agtctgaatt ttattagagc tcacacacca tatattaaca tatacaactg tgaaccagct 600
aatccctctg agaaaaactc cccatctacc caatactgtt acagcataca atctctgttc 660
ttgggcattt tgtcagtgat gctgatcttt gccttcttcc aggaacttgt aatagctggc 720
atcgttgaga atgaatggaa aagaacgtgc tccagacca aatctaacat agttctcctg 780
tcagcagaag aaaaaaaaaa acagactatt gaaataaaaag aagaagtggg tgggctaact 840
gaaacatctt cccaacccaaa gaatgaagaa gacattgaaa ttattccaat ccaagaagag 900
gaagaagaag aaacagagac gaactttcca gaacctcccc aagatcagga atcctcacca 960
atagaaaatg acagctctcc ttaagtgatt tcttctgttt tctgtttcct tttttaaaca 1020
ttagtgttca tagcttccaa gagacatgct gactttcatt tcttgaggta ctctgcacat 1080
acgcaccaca tctctatctg gcctttgcat ggagtgacca tagctccttc tctcttacat 1140
tgaatgtaga gaatgtagcc attgtagcag cttgtgttgt cacgcttctt cttttgagca 1200
actttcttac actgaagaaa ggcagaatga gtgcttcaga atgtgatttc ctactaacct 1260
gttccttgga taggcttttt agtatagtat tttttttgt cattttctcc atcagcaacc 1320
agggagactg cacctgatgg aaaagatata tgactgcttc atgacattcc taaactatct 1380
tttttttatt ccacatctac gtttttgggt gagtcacctt tgcattcatt ttttaaggat 1440
gataaaaaaa aaataacaac tagggacaat acagaacca ttccatttat ctttctacag 1500
ggctgacatt gtggcacatt cttagagtta ccacaccca tgagggaagc tctaaatagc 1560
caacacccat ctgttttttg taaaaacagc atagctt 1597

```

<210> 40

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (146)..(148)
<223> n = gat or c

<220>
<221> misc_feature
<222> (347)
<223> n = gat or c

<220>
<221> misc_feature
<222> (411)..(413)
<223> n = gat or c

<220>
<221> misc_feature
<222> (421)
<223> n = gat or c

<400> 40
aagtgaacat taaccattta ttcaaagtta tacaagaatt tgacggatta aagtcttcta 60
tgacataaag ccatttcaaa tagtttcatg tctcagctga gcaggaggag agggggtgaa 120
agaataagtg agtaggcccc gttggnangc tagacagtaa aaacagactc aacagcagcc 180
gccccagcc tgctgtcctc cctgattgcc tgcattgtgtt gcattggttag cagcatgctg 240
acgggccaat tttaatgcca tttgcctcat tattaatgtc aaagactcct tcttgaattt 300
tttcataaat ttcttttgct gtattaataa atgcctcttc tacattngga agcagtccta 360
gcagacgttt ccatgaagat gagtccatgg tcccgtggca aaaggcttca ncnttccttc 420
nttttttttac ttct 434

<210> 41
<211> 1148
<212> DNA
<213> Homo sapiens

<400> 41
gctcggtcgg gcgctgtctc cctcggctct gcgggtgtca gttcgtccgg ctctctcaca 60
gcccctcact cccggcggct gacagcagca gcggcggcgg cgggcggcgc ctggcgtttc 120
gaggctgagc ggcaccgggg ttggggcgcg gaggaggagc agcagcggga ggaggagccg 180
tgtgccctgg cactgagcgg ccgcggccat ggcgtacgcc tatctcttca agtacatcat 240
aatcggcgac acagggtgtg gtaaatcatg cttattgcta cagtttacag acaagagggt 300
tcagccagtg catgacctta ctattggtgt agagttcggg gctcgaatga taactattga 360
tgggaaacag ataaaaacttc agatatggga tacggcaggg caagaatcct ttcgttccat 420
cacaaggctg tattacagag gtgcagcagg agctttacta gtttacgata ttacacggag 480
agatacattc aaccacttga caacctggtt agaagatgcc cgccagcatt ccaattccaa 540
catggtcatt atgcttattg gaaataaaaag tgatttagaa tctagaagag aagtaaaaaa 600
agaagaaggt gaagcttttg cacgagaaca tggactcatc ttcattggaaa cgtctgctaa 660
gactgcttcc aatgtagaag aggcatttat taatacagca aaagaaattt atgaaaaaat 720
tcaagaagga gtctttgaca ttaataatga ggcaaatggc attaaaattg gccctcagca 780

tgctgctacc	aatgcaacac	atgcaggcaa	tcagggagga	cagcaggctg	ggggcggctg	840
ctgttgagtc	tgtttttact	gtctagctgc	ccaacggggc	ctactcactt	attctttcac	900
cccctctcct	cctgctcagc	tgagacatga	aactatttga	aatggcttta	tgtcacagaa	960
gactttaatc	cgtcaaattc	ttgtataact	ttgaataaat	ggttaatgtt	cacttaaaag	1020
acagattttg	gagattgtat	tcatatctat	ttgcatttga	tttctaggtc	aattgatgtg	1080
attatTTTTg	ttaaattgtg	tcttgtgccc	ttaactacga	actgaattgt	attaaacact	1140
acaaagtc						1148